OPERATOR/SERVICE MANUAL

MODELS: 65D

WALK BEHIND ROLLER

This equipment has been designed and tested to meet the requirements of the **Machinery Safety Directive 89/392/EEC and Amendments** and therefore carries the CE mark.

Stone Construction Equipment, Inc.
P.O. Box 150, Honeoye, New York 14471
Phone: (800) 888-9926
Fax: 716-229-2363

A 100% employee-owned American manufacturer

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65D ROLLER

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LIMITED WARRANTY

The Manufacturer warrants that products manufactured shall be free from defects in material and workmanship that develop under normal use for a period of 90 days for concrete vibrators and electric pumps, one year for Rhino®, Bulldog®, Wolfpac Rollers™, trowels, Stompers®, saws, plates, engine powered pumps, and 6 months for all other products from the date of shipment. The foregoing shall be the exclusive remedy of the buyer and the exclusive liability of the Manufacturer. Our warranty excludes normal replaceable wear items, i.e. gaskets, wear plates, seals, O-rings, V-belts, drive chains, clutches, etc. Any equipment, part or product which is furnished by the Manufacturer but manufactured by another, bears only the warranty given by such other manufacturer. (The Manufacturer extends the warranty period to "Lifetime" for the drum bearings and seals for the mortar mixers, and agrees to furnish, free of charge, the bearings and seals only upon receipt of the defective parts and a Warranty Evaluation Form. The eccentric bearings are warrantied for two years on the plate compactors and five years on the Bulldog line, the trowel gearboxes are warrantied for two years, plus a Warranty Evaluation Form must accompany the defective parts.) Warranty is voided by product abuse, alterations, and use of equipment in applications for which it was not intended, use of non-manufacturer parts, or failure to follow documented service instructions. The foregoing warranty is exclusive of all other warranties whether written or oral, expressed or implied. No warranty of merchantability or fitness for a particular purpose shall apply. The agents, dealer and employees of Manufacturer are not authorized to make modification to this warranty, or additional warranties binding on Manufacturer. Therefore, additional statements, whether oral or written, do not constitute warranty and should not be relied upon.

The Manufacturer's sole responsibility for any breach of the foregoing provision of this contract, with respect to any product or part not conforming to the Warranty or the description herein contained, is at its option (a) to repair, replace or refund such product or parts upon the prepaid return thereof to location designated specifically by the Manufacturer. Product returns not shipped prepaid or on an economical transportation basis will be refused (b) as an alternative to the foregoing modes of settlement - the Manufacturer's dealer to repair defective units with reimbursement for expenses, except labor, and be reviewed with the Manufacturer prior to repair. A Warranty Evaluation Form must accompany all warranty claims.

Except as set forth hereinabove and without limitation of the above, there are no warranties or other affirmations which extends beyond the description of the products and the fact hereof, or as to operational efficiency, product reliability or maintainability or compatibility with products furnished by others. In no event whether as a result of breach of contract or warranty or alleged negligence, shall the Manufacturer be liable for special or consequential damages including but not limited to: Loss of profits or revenues, loss of use of the product or any associated product, cost of capital, cost of substitute products, facilities or services or claims of customers.

No claim will be allowed for products lost or damaged in transit. Such claims should be filed with the carrier within fifteen days.

Effective December 1, 1995.

MODEL NUMBER _____ Serial No._____

Stone®

Stone Construction Equipment, Inc.
Corporate Offices/Northern Mfg. Plant
32 East Main Street, P.O. Box 150
Honeoye, NY 14471-0150

Phone: 1-800-888-9926
Phone: (716) 229-5141
FAX: (716) 229-2363

Specification Comparisons

MODEL	65H	65H
Drum Type	Dual	Dual
Dimensions		
Operating Wt.	1412 lbs.	640 kg
Shipping Wt.	1500 lbs.	680 kg
L X W X H	93"x31"x40" 56"x31"x71" handle upright	2360 x 785 x 1015 mm 1420 x 785 x 1800 handle upright
Operating Length	93"	2360 mm
Drum Width	26"	650 mm
Drum Dia.	16"	400 mm
Curb Clearance	8"	200 mm
Wall Clearance	1.1 / 4.2"	28 / 107 mm
Operating System		
Drive System	Hydrostatic	Hydrostatic
Engine Options	7.3 hp Hatz Diesel	5.4 kw
Engine RPM's	2750 rpm	2750 rpm
Fuel Capacity	2.2 gallons	8.25 L
Hydraulic Capacity	4.8 gallons	18 L
Water System	Plastic tank, brass taps noncorrosive dual spray bars	Plastic tank, brass taps noncorrosive dual spray bars
Water Tank Capacity	5.3 gallons 4.1 gallons	20 L (Front) 15.5 L (Rear)
Performance		
Max. Travel Speed	0-2 mph	0-3.2 km/h
Eccentric Force	4270 lbs.	19 kn
Frequency	4320 vpm	72 hz
Maximum Lift	.02"	.5 mm
Gradeability w/vibration w/o vibration	33% 50%	33% 50%
Safety Features	Deadman's Handle Reverse position system	Deadman's Handle Reverse position system
Standards	Freewheel System Parking Brake Lifting Points Front & Rear Adjustable Scrapers Adjustable Handle	Freewheel System Parking Brake Lifting Points Front & Rear Adjustable Scrapers Adjustable Handle

SERVICE CHECK LIST

USEFUL INFORMATION

Model/Capacity _____

VIN _____

Purchase Date _____

Engine Make/No. _____

_____

_____

Oil Specifications & Quantity

Engine _____

Hydraulic _____

_____

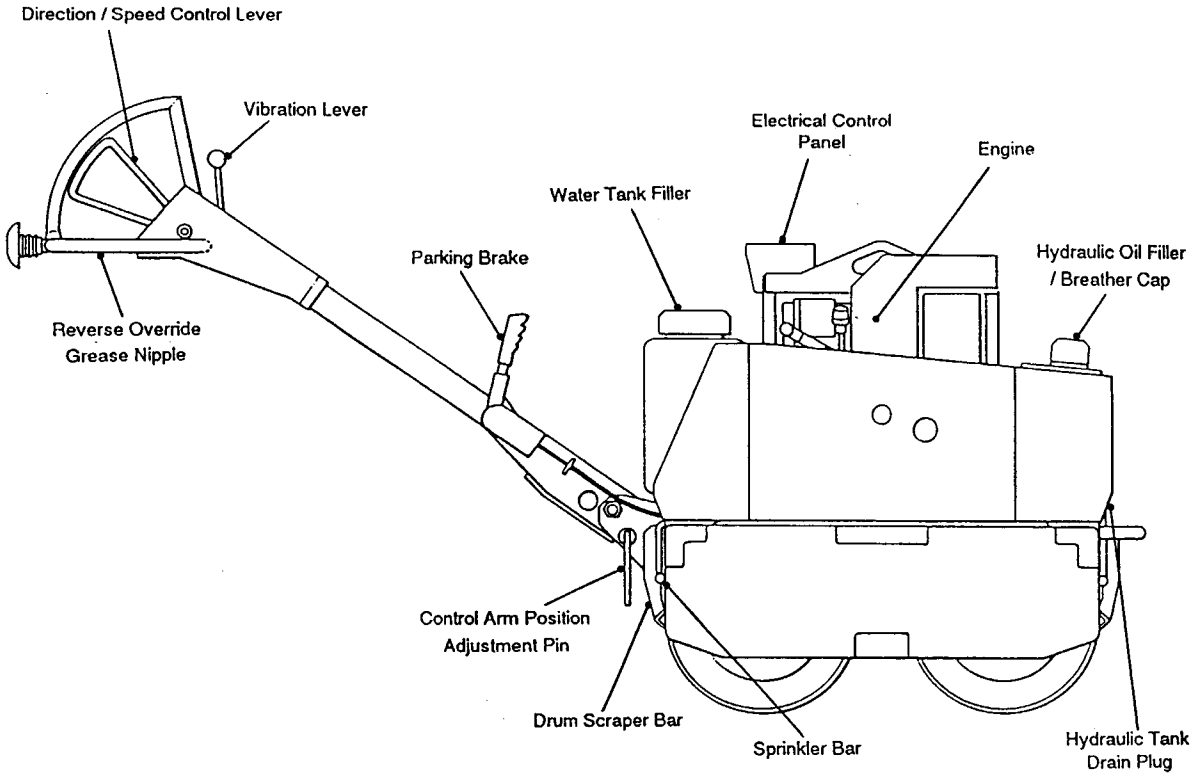
Service	Date
1	
2	
3	
4	
5	
6	
7	
8	
9	

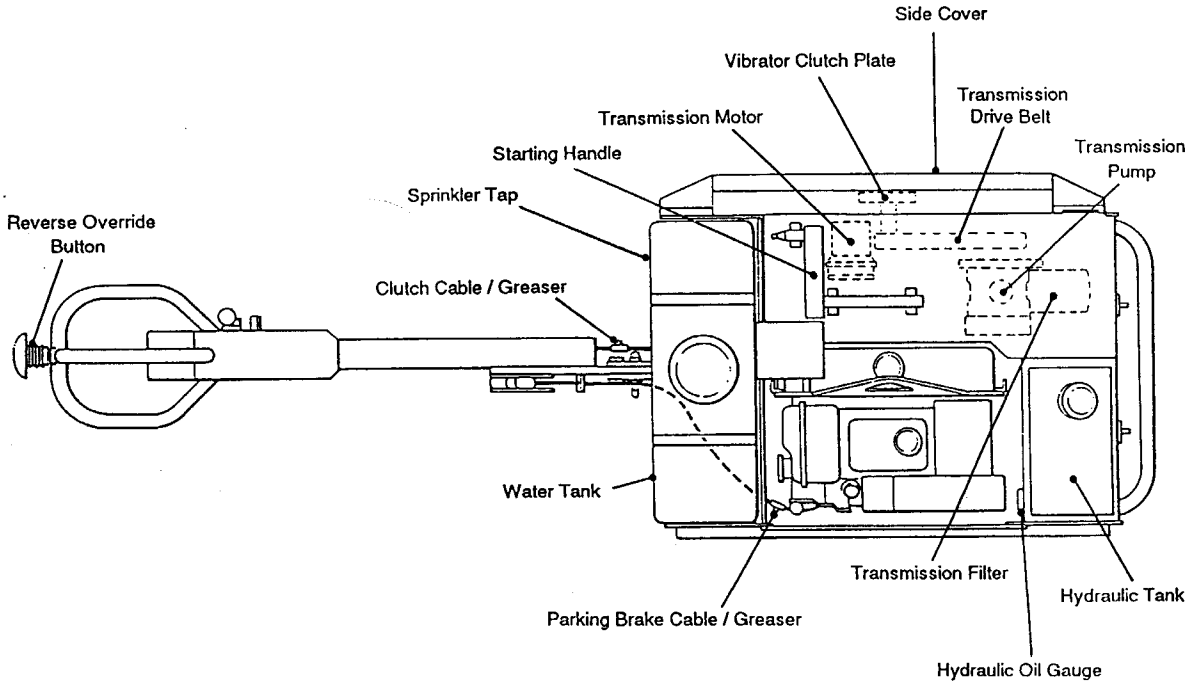
Safety

It is recommended the driver is adequately trained in the safe operation of this machine, has been authorized to operate it and has sufficient knowledge of the machine to assure himself that it is in full working order before use.

Stone Construction Equipment, Inc.
32 East Main Street
Honeoye, NY 14471
USA

For Service/Spare Parts:
1-800-888-9926
1-716-229-5141
Fax: 1-716-229-2363


Direction / Speed Control Lever
Vibration Lever
Electrical Control Panel
Engine
Water Tank Filler
Parking Brake
Hydraulic Oil Filler / Breather Cap
Reverse Override Grease Nipple
Control Arm Position Adjustment Pin
Drum Scraper Bar
Sprinkler Bar
Hydraulic Tank Drain Plug


Side Cover
Vibrator Clutch Plate
Transmission Drive Belt
Transmission Motor
Starting Handle
Transmission Pump
Sprinkler Tap
Reverse Override Button
Clutch Cable / Greaser
Water Tank
Transmission Filter
Hydraulic Tank
Parking Brake Cable / Greaser
Hydraulic Oil Gauge

Introduction

The 65D roller is powered by a Hatz 1D41 single cylinder, hand start, diesel engine running at a constant 2750rpm.

Forward reverse drive to the roller drums is by means of a hydrostatic transmission.

A hydraulic pump, belt driven at constant speed from the engine, supplies oil to a hydraulic motor driving each drum through spur reduction gears.

Rubber mountings at each end of the drums isolate the transmission and operator from the effects of vibration.

An eccentric shaft mounted on grease packed ball bearings, is contained within each drum to generate vibration. Drive to each shaft is at constant speed from the engine via a drive shaft, flexible couplings, dry plate clutch and pre-tensioned 'Vee" belt running on machined pulleys.

Each roller drum is of heavy duty steel construction with seam welded plates to prevent ingress of water.

A removable cast aluminium side cover protects and provides access to the drive gears, clutch assembly and vibrator drive belt.

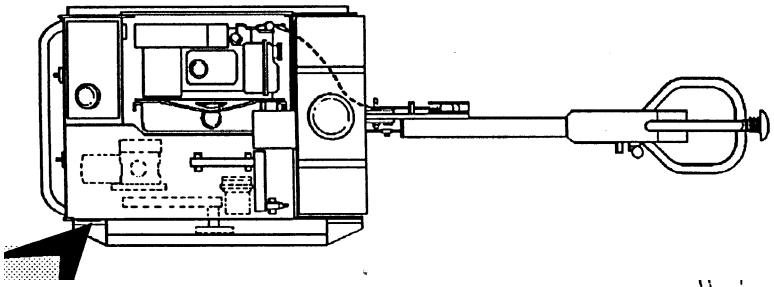
A plastic water tank is supplied with a brass water tap, noncorrosive spray bars and large diameter filling cap for easy cleaning.

Front and rear adjustable scraper bars are provided and a parking brake is fitted in the transmission as an added safety precaution.

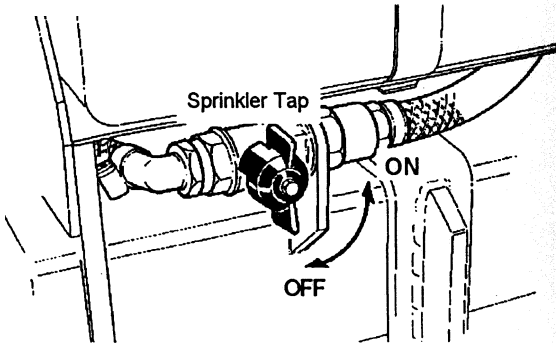
The speed can be regulated to give the necessary control for safe operation under a wide range of working conditions.

Speed and direction of travel control is by a single control lever which when released will automatically return to the neutral position and stop the roller.

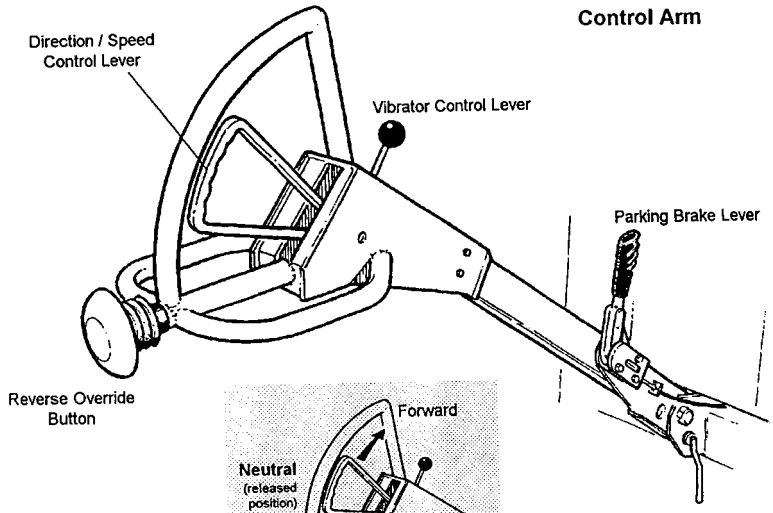
An automatic safety Reverse Override Button operates if the roller is reversed up to a wall or similar to prevent the operator from being trapped between the roller and wall.

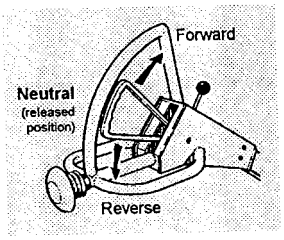


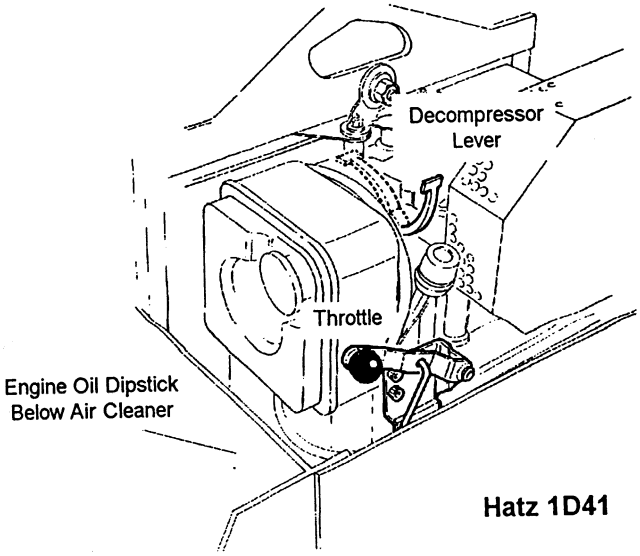
r Sprinkler Tap



Control Arm







Hatz 1D41

SAFETY

These machines are designed to carry out the function of compacting material of the non-cohesive, bituminous and granular varieties.

If used correctly they will provide an effective and safe means of compaction and meet the appropriate performance standards.

It is essential that the drive/operator of the machine is adequately trained in its safe operation, be authorized to drive it, and have sufficient knowledge of the machine to ensure that it is in full working order, before being put to use.

Safety

These machines are designed to carry out the function of compacting materials of the non-cohesive, bituminous and granular varieties. If used correctly they will provide an effective and safe means of compaction and meet the appropriate performance standards.

It is essential the machine Operator is an able bodied adult, adequately trained in its safe operation. The Operator must also be authorized to operate the machine and have sufficient working knowledge of the machine to ensure it is in full and safe working condition before it is put to use.

Operational Safety Points

When using this machine the following list of basic Do's and Don't's should be applied. This list is not necessarily a complete list, but applying these rules will greatly reduce the possibility of an accident occurring.

Always

- Carry out a daily pre-start check of the machine
- Look around the machine before starting the engine - children could be out of sight
- Before starting the engine, ensure the transmission control lever is in the NEUTRAL position
- Examine working area looking for possible dangers e.g. trenches, confined area, people working
- Park the machine on safe, firm, level ground
- Clear away obvious hazards and always operate with caution
- Ensure you have a clear view when driving
- Exercise great care when working on gradients - especially when crossing
- When refuelling make sure the engine is cold and the machine is in a well ventilated area, with the engine stopped. Use clean fuel and container. Beware of naked flames, grinding sparks etc.
- Winch or lift the roller from any situation where it cannot extricate itself
- Wear appropriate protective clothing,

Hard Hat.....	at all times
Safety Boots.....	at all times
Safety Glasses.....	at all times
Reflective Clothing.....	at all times
Gloves.....	as conditions dictate
Ear Protectors.....	as conditions dictate
Respirator.....	in dusty conditions

- Wash/Clean the machine at the end of each working day - Keep water away from electrical components.

Never

Attempt to “jump” obstacles such as curbs and manholes

Drive at high speed over rough ground - drive slowly

Leave the roller unattended with the engine running, this practice is not only dangerous but can cause premature engine wear

Carry out maintenance unless the engine is stopped and the start key (if fitted) has been removed

Carry out maintenance unless the drums are chocked

Tamper with any of the safety devices on the machine

Tighten or disconnect any hose while the engine is running

Safe Operation Decals

The machine has a number of special decals fitted which draw the users attention to various points of operation or safety.

Before Using the Machine

Read all the decals attached to the machine and fully understand their meaning. If you don’t understand their meaning contact your supervisor for clarification.

Condition of Decals

Ensure the decals are always clean and readable, replace when necessary.

Spare decals are obtainable from the Manufacturers Spares Department

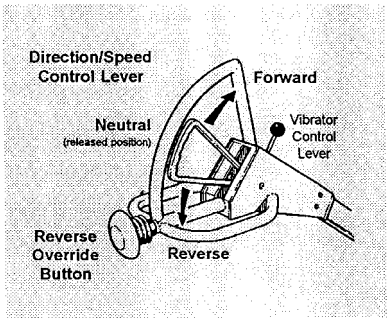
Gradient Working

In the Technical Specification section of this handbook details are given of the recommended gradient capability of the machine.

The gradients quoted give a general guide as to performance, but conditions existing on site in terms of ground conditions and vehicle speed will have an effect on machine stability, an allowance for which must be made by the driver.

For more detailed information regarding working on gradients see the Gradient section in Operation and Use section of this manual.

Operating Controls



Direction/Speed Control

When operated the direction lever selects forward or reverse. Speed, in either direction, is proportionally increased as the lever moves away from neutral and is proportionally decreased as it moves back.

For a smooth progressive acceleration or deceleration always move the lever gently and slowly.

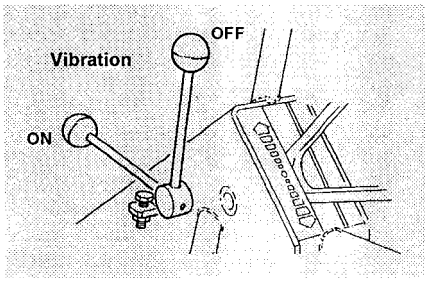
The lever is spring loaded to the neutral position so that when it is released the roller will come to an immediate stop.

Reverse Override Button

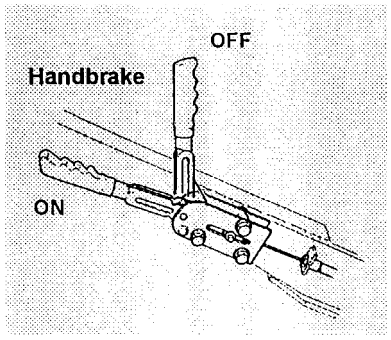
This safety device prevents the machine from injuring the Operator if reversed into an obstruction and the Operator is prevented from releasing the direction/speed lever.

Vibrator Lever

The vibratory lever is of the spring loaded "over center" type and controls the clutch which starts and stops the vibrator. Move lever forward to start the vibrator and backward to stop it.



Never Operate the Vibrator when Roller is Standing on a Hard Surface



Parking Brake

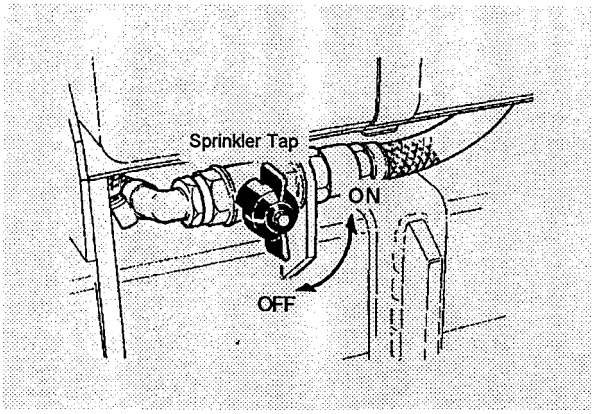
A parking brake is provided in the drum transmission for additional safety when the roller is left unattended. The handbrake is applied by pulling the lever backwards until it is parallel with the steering arm.

Water Sprinkler Tap

Spraying the drums with water during rolling is essential to prevent asphalt loading up on the drum surfaces.

A water tank mounted at the rear of the machine discharges water through brass spraybars onto each drum.

A tap in the feed pipe allows the water flow rate to be controlled or cuts the supply off.



Adjustment of the Control Arm Position

The control arm may be secured in either a working or a storage position. To reposition the arm use the following procedure.

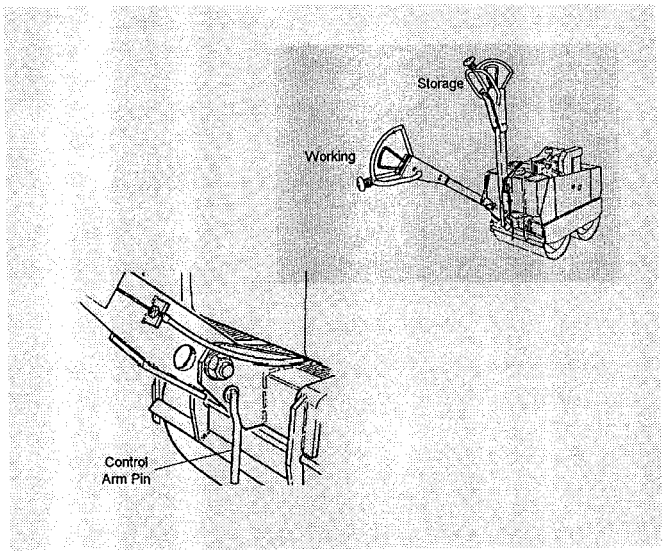
Stop the engine and apply the handbrake

Remove the linch pin from the control arm pin

Support the weight of the control arm with one hand and remove the control arm pin

Reposition the control arm to its working or storage position

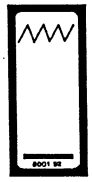
Refit the control arm pin and retain with the linch pin



Do Not Attempt to Start the Engine with Control Arm in Storage Position.

Do Not Start or Operate Roller if Control Arm is Not Secured in Operating Position.

Machine Symbol Descriptions

	**Vibrator Lever**	Indicates position Vibrator Lever should be positioned at to start or stop the vibrator **Push Forwards to START Vibrator** **Pull Backwards to STOP Vibrator**
	Direction and Speed Lever	Indicates the direction in which the roller will move if the Direction / Speed Lever is moved from the neutral position. The farther the lever is moved away from the neutral position in either direction the faster the machine will travel. **Push Forwards to Move Roller FORWARDS** **Pull Backwards to Move Roller BACKWARDS**
	Parking Brake	

SAFETY PRECAUTIONS

Before using this equipment, study this entire manual to become familiar with its operation. Do not allow untrained or unauthorized personnel, especially children, to operate this equipment. Use only factory authorized parts for service.

When warning decals are destroyed or missing, contact the Manufacturer immediately at 1-800-888-9926 for replacement. For the safety of yourself and others, it is imperative that the following rules are observed. Failure to do so may result in serious injury or death.

This notation appears before warnings in the text. It means that the step which follows must be carried out to avoid the possibility of personal injury or death. These warnings are intended to help the technician avoid any potential hazards encountered in the normal service procedures. We strongly recommend that the reader takes advantage of the information provided to prevent personal injury or injury to others.

USE COMMON SENSE WHEN HANDLING FUELS

Transport and handle fuel only when contained in approved safety container.

Do not smoke when refueling or during any other fuel handling operation.

Do not refuel while the engine is running or while it is still hot.

If fuel is spilled during refueling, wipe it off from the engine immediately and discard the rag in a safe place.

Do not operate the equipment if fuel or oil leaks exist - repair immediately.

Never operate this equipment in an explosive atmosphere.

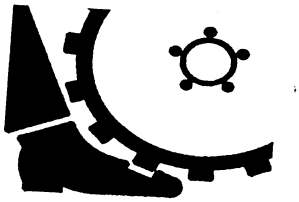
Ear protection required when operating this equipment.

Avoid contact with hot exhaust systems and engines.

Allow engine to cool before performing any repairs.

Never operate unit in a poorly ventilated or enclosed area.

Avoid prolonged breathing of exhaust gases.



Keep feet clear of all drums.

Keep work area free of bystanders

For foot protection, wear steel toe shoes or toe pads.

Caution: Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury.

Hydraulic fluid escaping under pressure from a very small hole can be almost invisible. Use a piece of cardboard or wood to search for possible leaks.

Never use your hands to detect pressure leaks.

Hydraulic tank temperature can reach 180 degrees F maximum.

Operation

Before using the roller the Operator MUST have received satisfactory training in its operation and be fully aware of what each control is for and its operation. The Operator must also be familiar with ALL site and machine safety aspects

General

Operator Notes

The Operator must read this book thoroughly and understand the contents, especially safety details, before using the roller.

The Operator must wear a hard hat, overalls, safety boots etc. when using the roller.

The engine should not be allowed to idle for long periods or premature wear will occur. If the machine is not to be used for five minutes or more, it should be parked correctly and the engine must be stopped.

Remember Engines Need Fuel, Lubricating Oil, Clean Air, Cooling

Delivery Checks

Immediately on taking delivery of the roller and before putting it into service:

Read this handbook thoroughly and understand.

Read the engine manufacturers handbook supplied with the machine.

Pre-Start Checks

Ensure the machine has been cleaned to enable leaks etc. to be noticed easily during the pre-start check and during normal operation.

Check general condition of machine - missing parts, loose fixings, fuel lines for damage, hydraulic hose end fittings for leakage, hydraulic hose outer cover for ballooning, has it been damaged?

Check engine and hydraulic oil levels - make sure the engine and hydraulic tank are filled using clean oil and a clean container.

Check fuel tank is full - make sure the tank is filled when the engine is cold and the machine is in a well ventilated area, with the engine stopped using clean fuel and container.

When Refueling Beware of Naked Flames, Grinding Sparks etc.

Check for adequate ventilation if the machine is to be started or run in a building etc.

Do Not Use Starting Sprays to Assist Engine Starting

Engine Starting

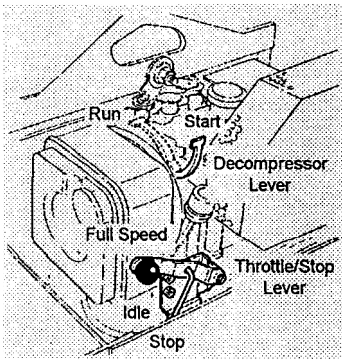
Before the initial daily start of the engine carry out the daily checks as detailed on the previous page and then ensure:

- The direction lever is in neutral.
- The vibrator lever is in the disengaged position.
- The parking brake is on.
- The air cleaner is clear - especially in dusty conditions.
- The starting handle is not damaged, is clean and is lightly oiled

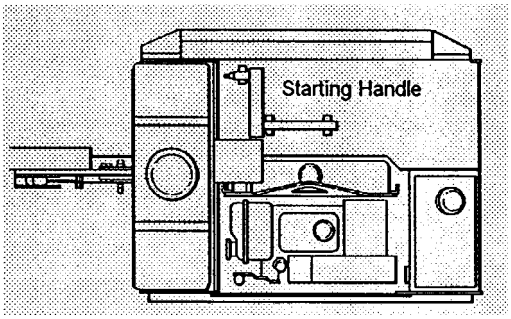
Follow Instructions Given in Engine Manufacturers Handbook Supplied with Roller

Make certain the sump oil is to the top dipstick mark and the air cleaner is in good condition and correctly fitted and proceed as follows:

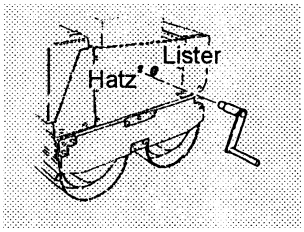
Hatz 1D41 - Hand Start



- Set the Throttle/Stop control lever to the full speed position - lever pulled fully upwards.
- Lift the decompressor lever and pull fully out.



- Remove the starting handle from its position on top of the roller and insert the handle into the correct position on engine.

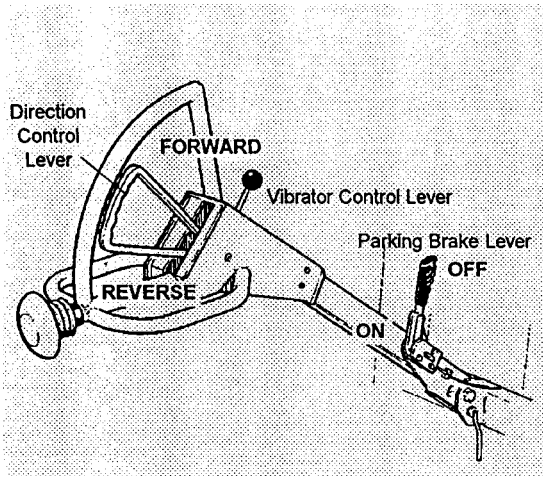


The Hatz starting handle is a *Safety Starting Handle* designed to limit any engine *kick back*. To allow the handle to function correctly the starting handle grip must be held firmly and not allowed to turn in the hand.

- Turn the engine over vigorously with the starting handle, as the engine turns the decompressor will automatically return to the run position and the engine will start.
- When engine has started, remove starting handle and return it to its clips on top of the roller.
- Never Use the Decompressor to Stop the Engine
- Do Not Allow Engine to Idle for Long Periods

Driving the Roller

- With the engine running, release the parking brake.
- Move the direction/travel control lever slowly UPWARDS to move FORWARDS and slowly DOWNWARDS for REVERSE. To increase speed, move the lever gradually towards the full extent of travel until the required speed has been attained.
- When constantly rolling forwards and backwards, move the direction lever forward into neutral, pause for a moment, then move into reverse, gradually increasing speed as drive is gently taken up.
- Apply the same procedure when changing from forward to reverse drive.



Gentle movement of control lever between forward and reverse minimizes strain on transmission and prevents drum skidding when direction of travel is changed.

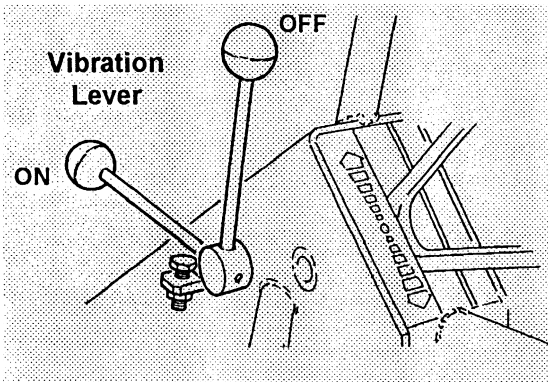
Vibration

When vibration is engaged, the machine should not be on concrete or an extremely hard surface otherwise mechanical damage to the roller may occur.

The machine must be moving with the engine at full speed when vibration is engaged otherwise the drum may create an indent in the surface being rolled.

Vibration Lever Operation

- Move the vibration lever forwards (away from the Operator) to engage vibration.
- Move the vibration lever backwards (towards the Operator) to disengage vibration.



To Prevent Mechanical Damage Do Not Vibrate On Concrete or Extremely Hard Surfaces.

Gradients

The machine must never be driven on gradients exceeding those given in the Technical Data section of this manual.

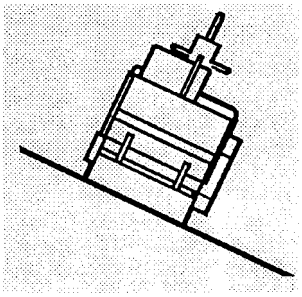
The gradients quoted give a general guide as to performance, but conditions existing on site in terms of ground conditions and vehicle speed will have an effect on machine stability, an allowance for which must be made by the driver.

Machine Adhesion Depends on the Surface being Rolled

When used on gradients the machine should only be driven UP or DOWN the gradient NEVER ACROSS.

Although the machine may be completely stable crossing a gradient depending on the surface, the roller may begin to slide down the gradient out of control especially if vibration is being used.

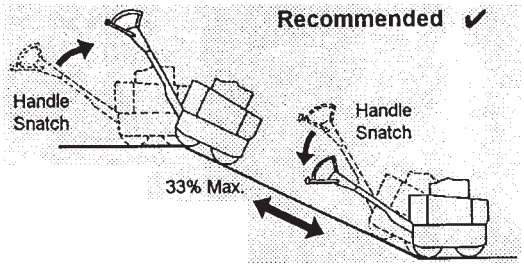
Do Not Cross Gradients

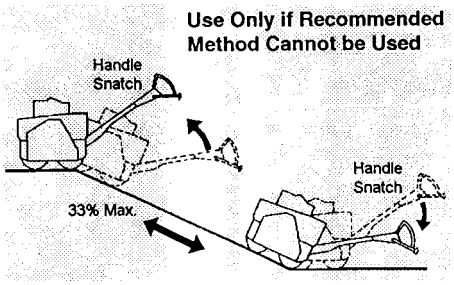


Change in Handle Position On Inclines

Be extremely careful when approaching an ascending or descending gradient, the control handle will either snatch UP or DOWN depending on the angle of the gradient.

The Operator must be aware of this movement and exercise extreme caution when working on uneven surfaces. Make sure loose clothing is clear of the control arm and the Operators hands are not in a position in which the sudden change in height of the control arm may trap the Operators hands or arms.





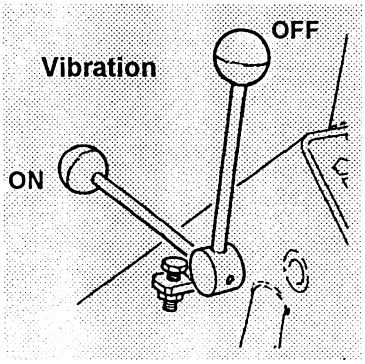
It is recommended that, whenever possible, the roller control arm points towards the highest point on the incline.

Using this method, if the machine does begin to slide on a slippery incline it will slide away from the Operator and not towards him.

To Stop and Park the Roller

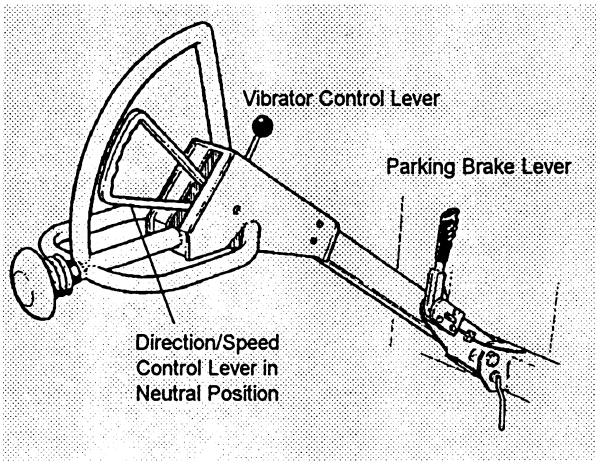
The Machine Should Never be Used or Parked On Unstable/Unsafe Ground

To Stop the Roller



- When stopping the machine the vibrator should not be in operation.
- Release the direction/speed control lever, this will stop the machine immediately.
- Move throttle lever to the idle speed position.
- Never leave the machine with the engine running. If the Operator is to leave the machine the procedures in the following section, When Parking the Machine, should also be carried out.

When Parking the Roller



Turn vibrator off.

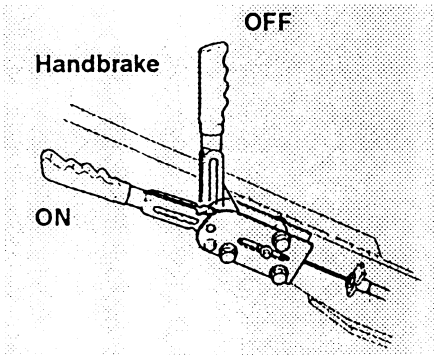
Select a safe area where it will cause least obstruction and inconvenience to others.

Release the direction/speed control lever allowing it to return to the neutral position.

Ensure machine is stationary on firm ground and apply handbrake.

Move throttle lever to the idle speed position.

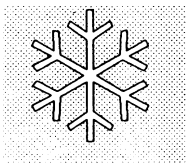
If parking for more than a few minutes stop the engine.



Chock the drums if machine is parked on a slope.

Remove the start key on electric start machines.

If temperatures are likely to fall below freezing point, the water tank should be drained when parking for any considerable length of time.



Transportation

Use a Trailer or Truck when Transporting

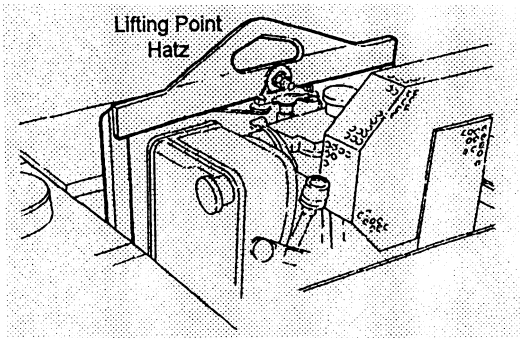
Loading

When loading the roller onto a trailer or truck, strong loading ramps, a crane or similar lifting device should be used. See Technical Data section for roller weights.

Crane or Similar Lifting Device

If using a crane or lifting device the rope, chain, strap etc. should be of sufficient strength to support the roller safely and be free from damage. See Technical Data section for roller weights.

A single lifting point is provided for lifting the complete roller. The position of this point will ensure a safe stable lift of the roller in working condition using standard lifting gear. Other methods of lifting are not recommended.



Ramps

Ensure the trailer or truck will not move during loading by applying their brakes and also chocking their wheels if necessary.

The angle of ramps must not exceed the gradeability of the roller and in wet or muddy conditions may need to be less.

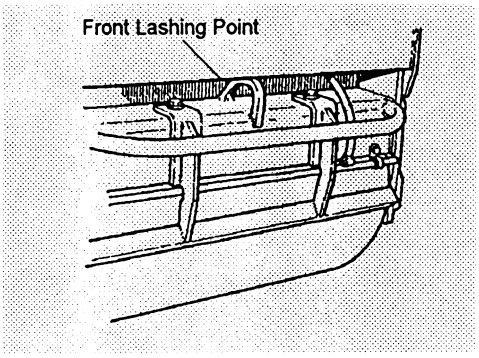
Gradeability Will Be Reduced In Wet, Muddy, Oily Conditions

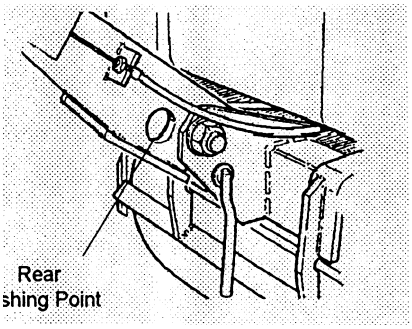
- It is recommended that a winch is used in conjunction with driving the machine whenever the roller is loaded using ramps. Use the front lashing point to secure the winch hook using a 'D' link.
- Dragging the roller when towing, i.e. without the drums turning, may result in the drums developing flat spots which will seriously affect the finish obtained when rolling soft surfaces.

Lashing

When loaded, the roller must be secured using chains, ropes, straps etc. of sufficient strength to hold the roller safely in all circumstances. Apply the Handbrake.

The lashing points provided on the front and rear of the roller must be used in conjunction with those on the trailer or truck.





Towing

Towing is Not Recommended - Only Tow the Roller in an Emergency.

In an emergency, use the front or rear lashing point to secure the tow rope to the roller.

Dragging the roller when towing, i.e. without the drums turning, may result in the drums developing flat spots which will seriously affect the finish when rolling soft surfaces.

Towing a Trailer

When the roller is mounted on a trailer ensure the trailer is securely connected to the towing vehicle and the trailer electric are connected before towing.

When driving the towing vehicle pay extra attention when turning corners etc. because the trailer will not always follow the exact tracks of the towing vehicle.

Avoid reversing with the trailer attached if at all possible, if it is necessary to reverse with the trailer attached, use a competent person to guide and give instructions. This person should ensure people and obstructions are clear of the trailer.

Do Not Travel at Excessive Speeds

Maintenance Section

For Your Safety

If the Machine Develops a Fault

- Park the machine in a safe area, if possible.
- Remove the starting handle.
- Attach a warning tag to the machine.
- Contact a qualified person to rectify the fault.
- Do not place hands, arm etc. in any area where there is a hydraulic leak while the hydraulic system is pressurized.

The Repair Area

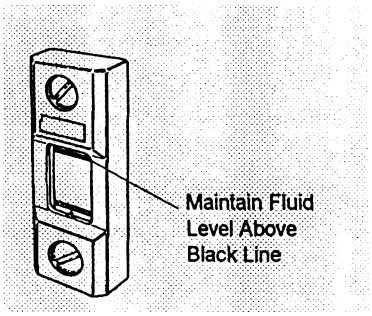
- The repair area should be level, clean, dry and have adequate light and ventilation.
- Keep the floor clean, wipe up spilt oil and grease.
- Always use the correct tool for the job and ensure tools are kept in good condition.
- Jacks, hoists, lifting chains and ropes should be checked before using. Do they have sufficient lifting capacity?
- Do not attempt to lift heavy objects on your own.

When Repairing

- Always wear eye protection.
- Always wear ear protectors when grinding or working in a noisy environment.
- Always wear goggles or a face mask when grinding or drilling.
- Always wear the correct goggles or protector when welding or burning.
- Release any pressure in the hydraulic circuit before carrying out hydraulic system repairs etc.
- Always block the wheels before carrying out any repairs.
- If the machine is suspended or lifted always support the machine on adequate blocks.
- Always remove the starting handle to stop accidental starting.
- Never work with the engine running unless absolutely necessary.
- Never start the engine unless the area is well ventilated.
- Always exercise extreme caution when welding, grinding or burning, against fire risk. Ensure adequate fire extinguishers are available.
- Never smoke or leave the engine running when refueling.
- Always use genuine Stone spare parts.
- Always test the machine thoroughly before putting it back to work.

Observing these points will not make the repair of the machine safe but combined with the skill and knowledge of a trained mechanic will certainly help.

Daily Checks



- Clean roller, remove any build up of material.

- Check operation of all controls and rectify any faults before using the machine.

- Check engine oil level and top up as required.

- Refuel

When refueling make sure the engine is cold and the machine is in a well ventilated area, with the engine stopped. Use clean fuel and container.

Beware of Naked Flames, Grinding Sparks etc. When Refueling.

- Check level of hydraulic fluid and top up as required using clean oil and container. The correct level is shown on the tanks sight gauge.

- Check for loose, worn or missing parts and rectify immediately.

- Drain water tank if subzero temperatures are expected.

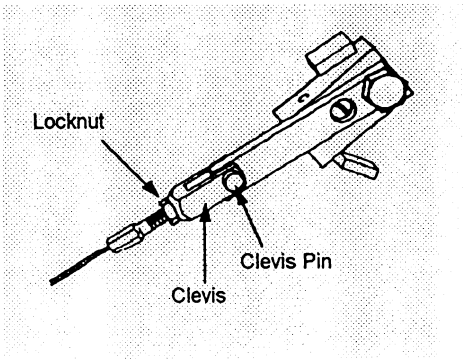
Air Cleaner

Maximum engine protection against dust is possible only if the air cleaner is serviced at regular intervals. No hard and fast rules apply to the regularity of servicing because operating conditions vary so much. The only way to determine if an air cleaner requires cleaning or replacing is to physically check it.

If In Doubt - Check Air Cleaner Frequently

After First Week then Monthly

Vibrator Clutch



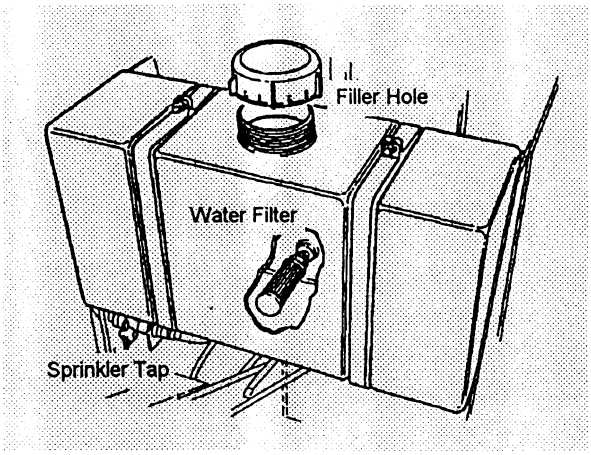
- Check the movement on clutch plate. The plate should lift by approximately 2mm (0.080 in) when disengaged and when in the engaged position the Operators lever should be free from the stop by approximately 10mm (0.390 in) if adjustment is needed this should be done on the cable at the Operators end.

General

- Check tightness of all fixings especially engine, pump and motor nuts and bolts.

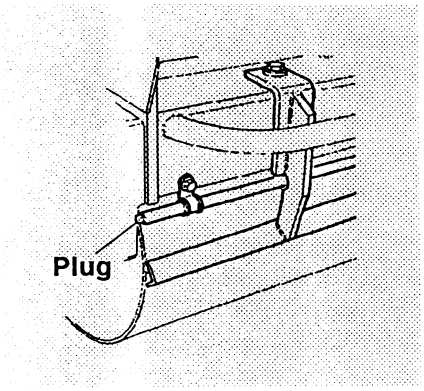
Monthly Checks

Water Tank



- Drain the water from the water tank through the sprinkler system.
- Access the tank through the filler hole and clean out any residue, dirt, debris etc. from the bottom of the tank by wiping with a clean cloth.
- Unscrew the water filter and wash out/back flush to remove any dirt from the filter. Refit water filter.
- Refill water tank with fresh, clean water.

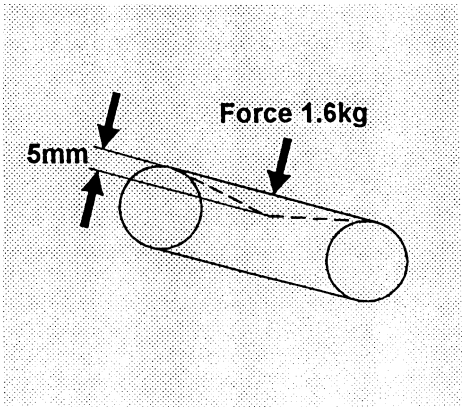
Spray Bars



- Remove the two plugs from the ends of the spray bars.
- Open the sprinkler tap and allow the water to flush through the spray bars.
- Close the sprinkler tap and refit the plugs.
- Open the sprinkler tap and check for any sprinkler holes that are still blocked. Clean out blocked holes using a piece of soft wire. Remove the plugs from the spray bars and flush though as above.
- Refit plugs and spray bars.

Pump Belt Tightness

- Remove top cover and check belt tightness. Tension is correct when there is a maximum of 5mm (0.200in) play at center of belt when deflected at its midpoint with a force of 1.6kg (3.50lbs).
- If adjustment is necessary slacken the 3 bolts on the pump mounting bracket and slide bracket on its slotted holes until correctly adjusted. Tighten bolts and refit top cover.
- Check hydraulic system for leaks replacing any worn hoses.



Check all bolts, nuts etc. for tightness.

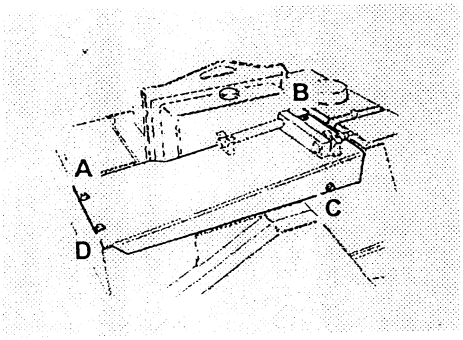
Annually

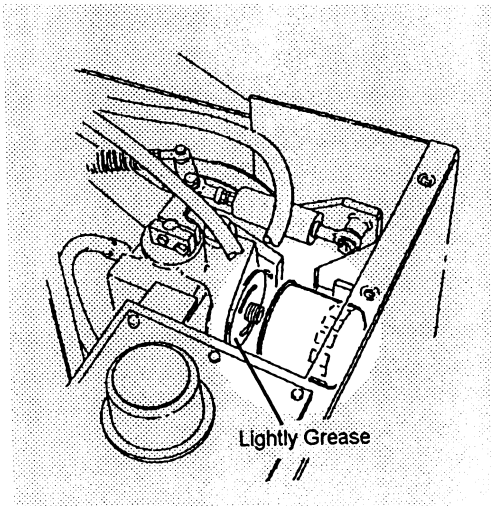
Hydraulic System

- Drain the hydraulic system by removing drain plug from front of the hydraulic tank.

Beware of Scalding from Hot Oil - Check Oil Temperature Before Draining.

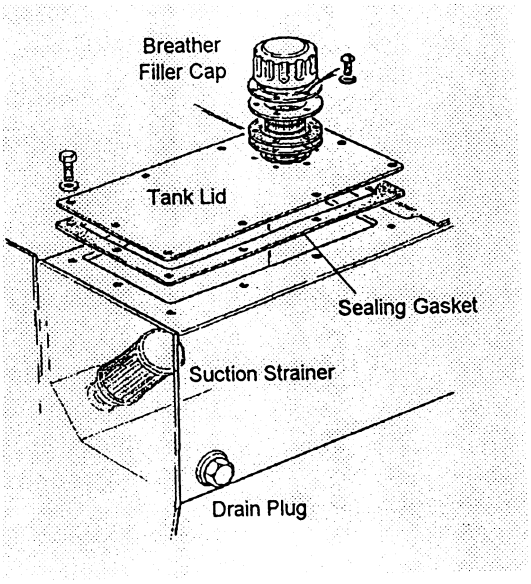
- Undo the four fixing bolts (A,B,C and D) and remove the top cover from the roller.



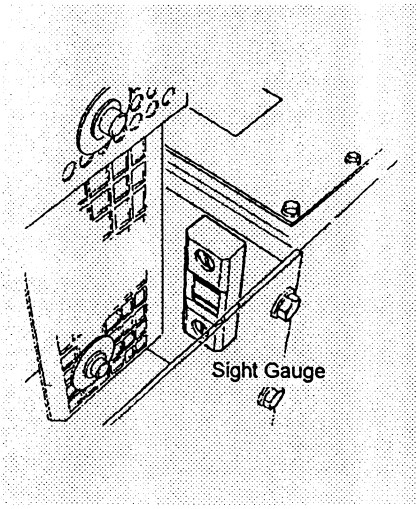


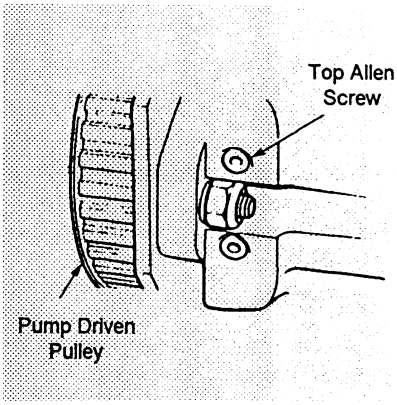
- Clean exterior of the transmission pump to prevent the ingress of dirt into the hydraulic system.
- Unscrew the filter from the transmission pump and dispose of the filter safely.
- Clean and lightly grease the filter body sealing ring face. Fit a new filter cartridge and sealing ring to the transmission pump and tighten hand tight.

- Remove the ten 6mm bolts securing tank lid and lift lid off carefully. Discard sealing gasket.
- Unscrew the six screws holding the breather/filler cap assembly to the tank lid and dispose of the complete cap assembly and gasket.
- Unscrew and dispose of suction strainer.
- Thoroughly clean the interior of the tank and flush through with clean solvent.
- Fit a new suction strainer.
- Refit the tank lid using a new gasket. Use hydraulic sealant on the threads of the ten 6mm bolts.



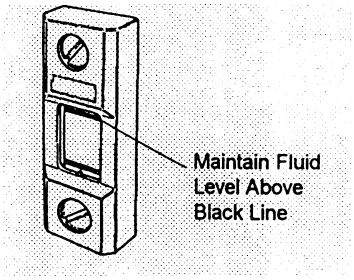
- Fit a new breather/filler cap assembly to the tank lid using the new gasket and screws supplied with the assembly.
- Carefully clean and replace the magnetic drain plug using a new sealing washer.
- Fill the hydraulic tank to the correct level on the sight gauge with clean, fresh hydraulic oil.





- Before starting the engine, the hydraulic system requires bleeding to remove trapped air.
- Remove top allen screw plug from pump body.
- Operate engine decompressor and crank engine slowly until a continuous stream of hydraulic oil pours from the hole with no air bubbles.
- Replace the allen screw plug securely.
- Top up the hydraulic tank to the correct level on the sight gauge and replace the filler/breather cap securely.

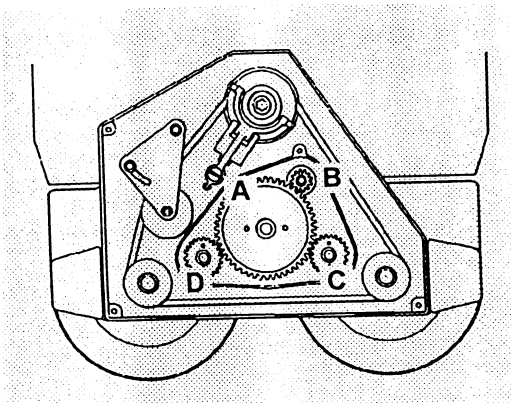
- The engine may now be started and if there are no obvious leaks left running for ten minutes checking frequently.
- Check the hydraulic system for leaks.
- Rectify any leaks with engine stopped and top up the hydraulic oil level to the correct level on the sight gauge.



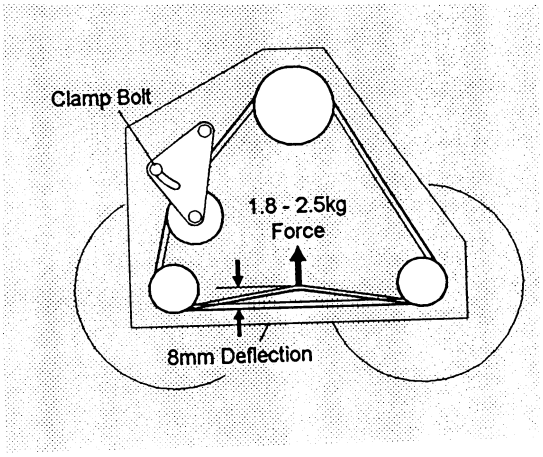
Never Attempt to Tighten or Loosen Hydraulic Fittings when Engine is Running. Hydraulic Oil Leaks at High Pressure Can Easily Penetrate the Skin - If the Skin is Penetrated with Hydraulic Oil Seek Expert Medical Attention Immediately.

Gear Drive

Remove the side covers and check there is sufficient lubricant on the drive gears. If necessary lightly re-grease the gears (A,B,C and D) with special grease specified in the Technical Data section.



Vibrator 'Vee' Belt Adjustment



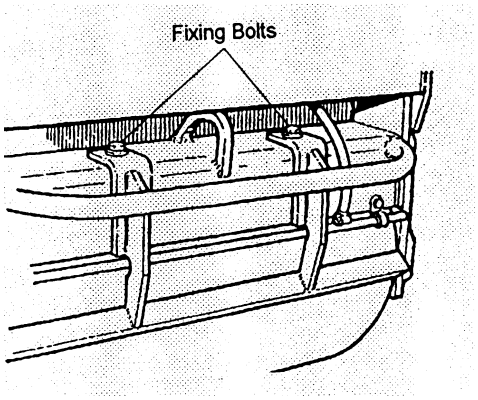
Remove the side cover and inspect the Vee belt for signs of a loose cover, cover swell, excessive wear or damage and correct alignment in the pulley grooves.

Adjusting Belt Tension

- Check tension by measuring the deflection of the belt midway between the two vibrator shaft pulleys.
- When correct, this deflection should measure 8mm (0.312in) when a deflection force of between 1.8kg (4.0lbs) and 2.5kg (5.50lbs) is applied.
- The belt may be adjusted by slackening the clamp bolt on the jockey pulley and moving the jockey pulley to tighten or slacken its pressure on the belt.
- Tighten the clamp bolt and recheck the tension. Repeat as necessary until the belt tension is correct.

Scraper Bar Adjustment - Front & Rear

- Slacken the two fixing bolts holding scraper bar to the roller crossmember.
- Move the scraper bar IN or OUT until the scraper bar just clears when the drum is fully rotated.
- Retighten the two fixing bolts.
- Check drums and scraper bars for clearance.
- Repeat the above procedure until the correct clearance is obtained.



Preservation and Storage

If the roller is to be stored for a long period of time the following procedures should be applied:

- Thoroughly wash down the exterior of the roller and remove any build up of material especially in the scraper bar area.
- Drain the water tank and sprinkler system.
- Grease all greasing points.
- Start the engine and warm it up. Drain engine oil and refill with clean fresh oil to the correct specification. See engine manufacturers handbook for further information on prolonged engine storage with regards to anticorrosion oils and fluids.
- Check the hydraulic oil level and top up as required.
- Leave the vibrator lever in the off position.
- Store the roller on solid level ground which is not liable to flooding, standing water or airborne contamination.
- Smear any exposed metal parts with grease.
- Leave the parking brake in the off position.

Chock the Drums Securely to Prevent the Roller Moving

Cleaning

- Using water or a pressure washer to wash down the exterior of the roller with or without detergent is generally all that is required.

Avoid Spraying Electrical Equipment with Pressure Washers

Asphalt or similar may be removed by soaking with diesel.

Do not use solvents or damage may be caused to paint work, rubber and plastic seals, hoses etc.

Contaminated Water/Fluids/Oils Must Be Disposed of Safely

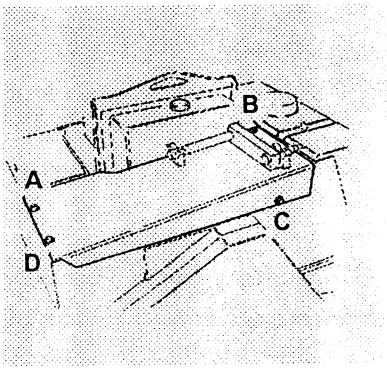
Direction/Travel Control Lever

Neutral Adjustment

The direction/speed control lever is connected to the transmission pump linkage by a push/pull stretchless cable and requires no maintenance. If the roller creeps in either direction when the control lever is in the released, neutral position check the following before proceeding with the neutral adjustment procedure.

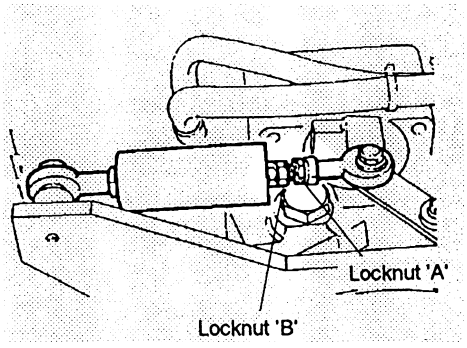
Possible Fault	Possible Cause
Inner cable will not slide freely in outer casing	Pinched cable Trapped cable Twisted cable Bent cable
Control lever will not move freely	Requires cleaning Seized Catching on adja-cent metal work
Seized transmission linkage	Requires cleaning Seized bearings Linkage catching on adjacent parts

Neutral Adjustment Procedure



- Support the roller so both drums are clear of the ground and free to rotate.
- Undo the four top cover fixing bolts (A,B,C and D) and remove to enable a clear view of the neutral position spring pack
- Start the engine and allow to idle.

Beware of the Uncovered Belt Drive



- Slacken rod end locknut ‘A’.
- Rotate the threaded shaft using a spanner on locknut ‘B’. The drums will begin to turn with increasing speed depending on the direction of rotation of the shaft.
- Turn shaft back until drums begin to turn opposite direction, now find the midpoint between these two positions where the drums remain stationery and tighten the locknut ‘A’.

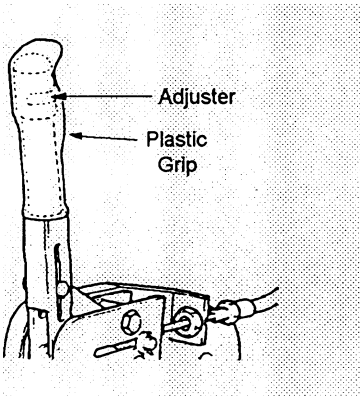
- Increase the engine speed to maximum rpm and operate the direction control fully in both directions approximately ten times.

- Check the drums stop rotating when the direction lever returns to the neutral position. If they do not then carry out the adjustment again with the engine at full speed.

- Stop engine and fully tighten the locknut. Fit the top cover and lower the roller to the ground. Test the roller and if necessary carry out the above procedure again.

Parking Brake Adjustment

Brake shoe wear or cable stretch will affect handbrake efficiency.



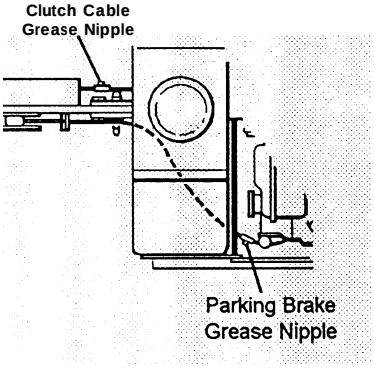
- To adjust the cable:

  Remove the moulded plastic top of the handbrake lever to reveal a hexagonal adjuster which should be turned clockwise to take up any slack.

- Take care not to over adjust the brake as this may cause a permanent application of the brake, leading to overheating, excessive drag on the engine and damage to the brake shoes.

Grease Points

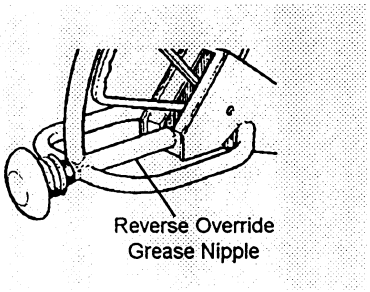
Handbrake Cable/Clutch Cable



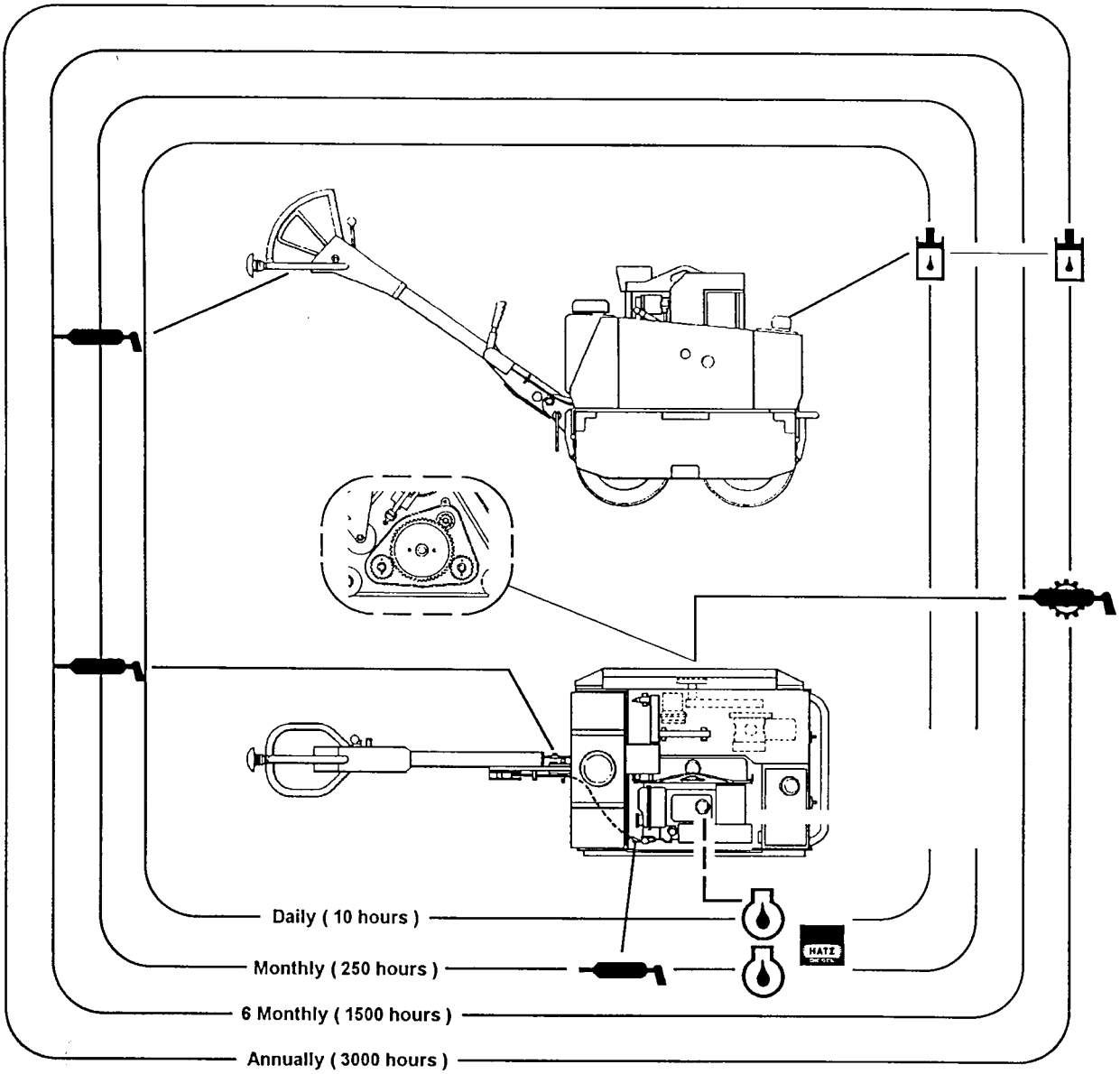
The grease nipple is accessed from the top of the roller at the rear right hand corner of the engine bedplate.

The grease nipple is at the bottom of the control arm where the cables emerge from the arm and go under the water tank.

Reverse Override Button



The grease nipple is located under the reverse override tube.



Key

SAE 10W/30	VG32	Rocol MG Grease	Multi-Purpose Grease

Lubrication Chart

Component	Lubricant	Qty	Service Interval
Engine	Refer to Engine Manufacturers Handbook		
Hydraulic System	Mineral Oil Type HLP (Din 51524) or HM (ISO 6743 & 6744). Viscosity Class ISO 3448 VG32	16 litres Total Fill	Top Up Daily Drain Annually and Refill
Handbrake Cable	Multi-Purpose Grease	1 shot	Monthly
Vibrator Cable	Multi-Purpose Grease	1 shot	Monthly
Reverse Override Push Button	Multi-Purpose Grease	1 shot	Monthly
Transmission Gears	Rocol Grease Type MG	As Req.	Monthly
Vibrator Shaft Bearings	Texaco Hytex EP	As Req.	At Major Overall

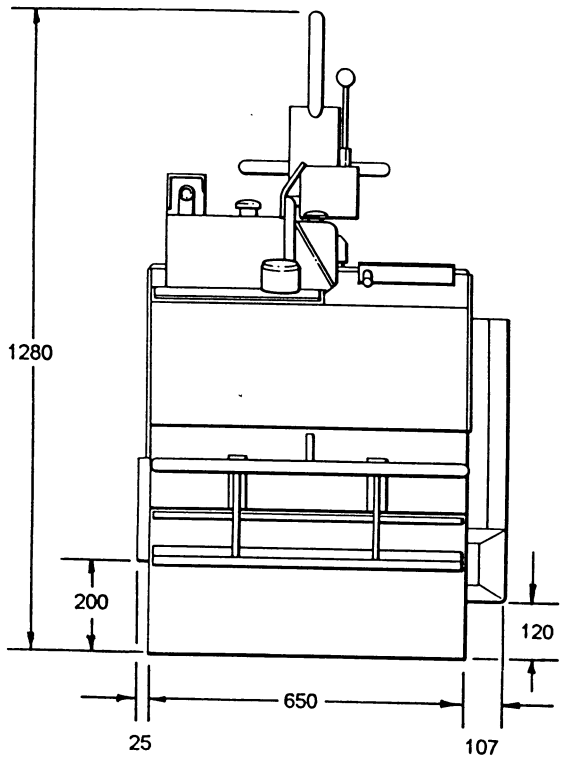
Consult the *Maintenance* section of this manual for instructions on carrying out the above machine lubrication maintenance procedures.

Beware of Scalding from Hot Oil - Check Oil Temperature Before Draining.

Never Attempt to Tighten or Loosen Hydraulic Fittings when Engine is Running. Hydraulic Oil Leaks at High Pressure Can Easily Penetrate the Skin. If the Skin is Penetrated with Hydraulic Oil Seek Expert Medical Attention Immediately.

Clean machine before starting lubrication maintenance.
Ensure machine is on solid, level ground before starting maintenance.
Remove starting handle/start key when oils have been drained to prevent accidental starting.
During lubrication maintenance ensure strict cleanliness is observed at all times.
To avoid the risk of accidents, use the correct tool for the job and keep tools clean.
The draining of engine or hydraulic oil is best carried out when the oil is warm NOT hot.
Any spilled oil must be cleaned up immediately.
Use only CLEAN containers for oil and only CLEAN, FRESH oils and grease of correct grades.

Contaminated Water / Fluids / Oils / Filters Must Be Disposed of Safely.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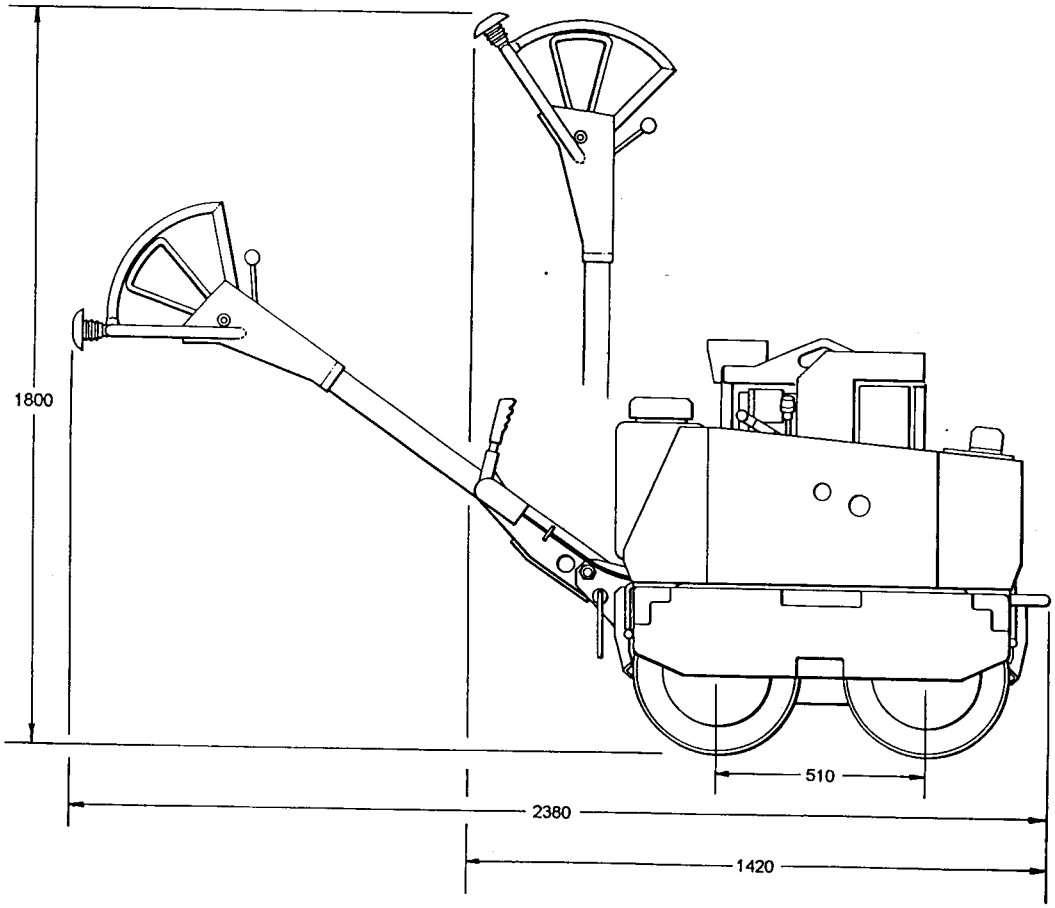
200
120
650
25
107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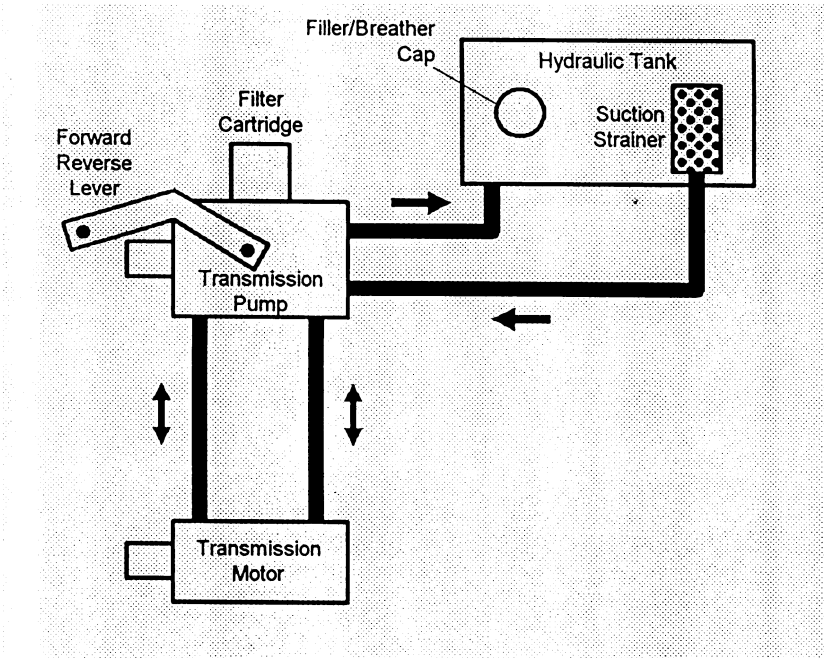
1420

Hydraulic Circuit



EXPLODED DIAGRAMS & PARTS LIST

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Frame, Drive and Vibration Linkage 38-39

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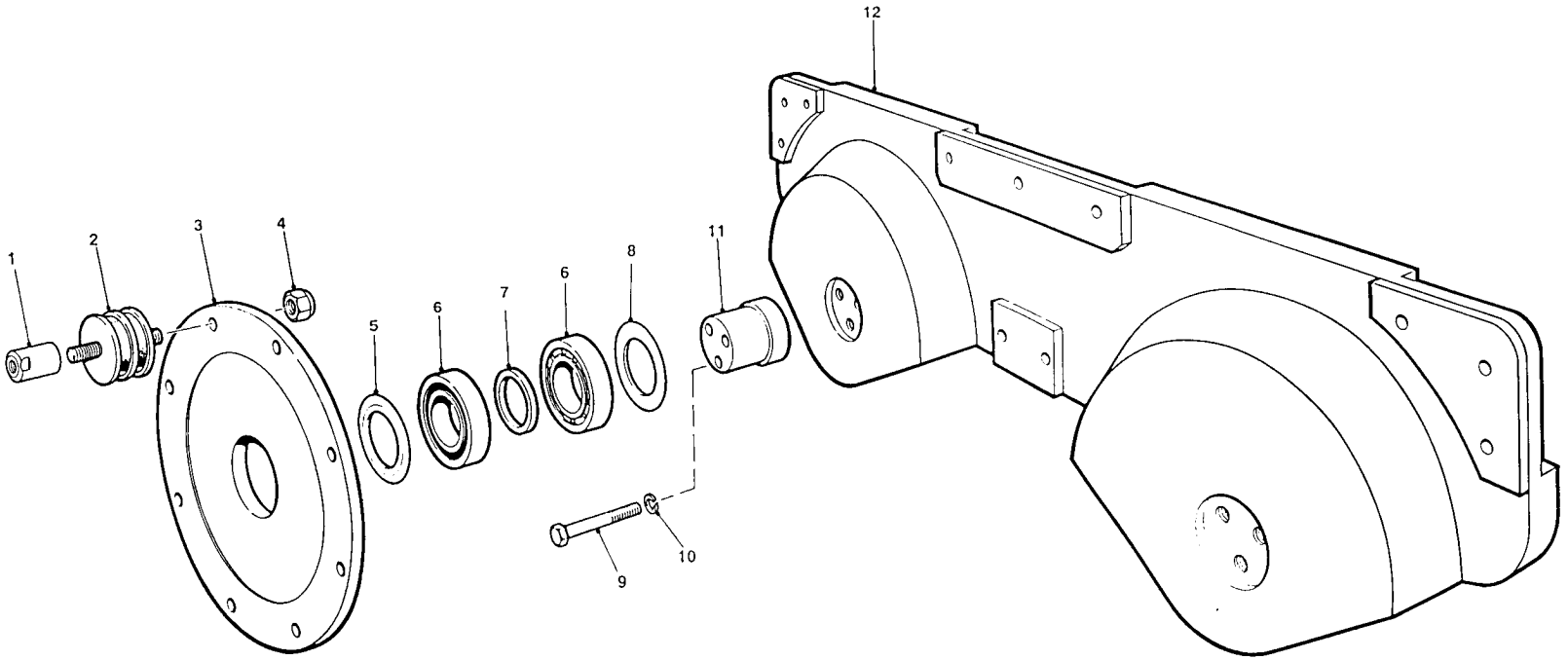
Left Hand Side Plate

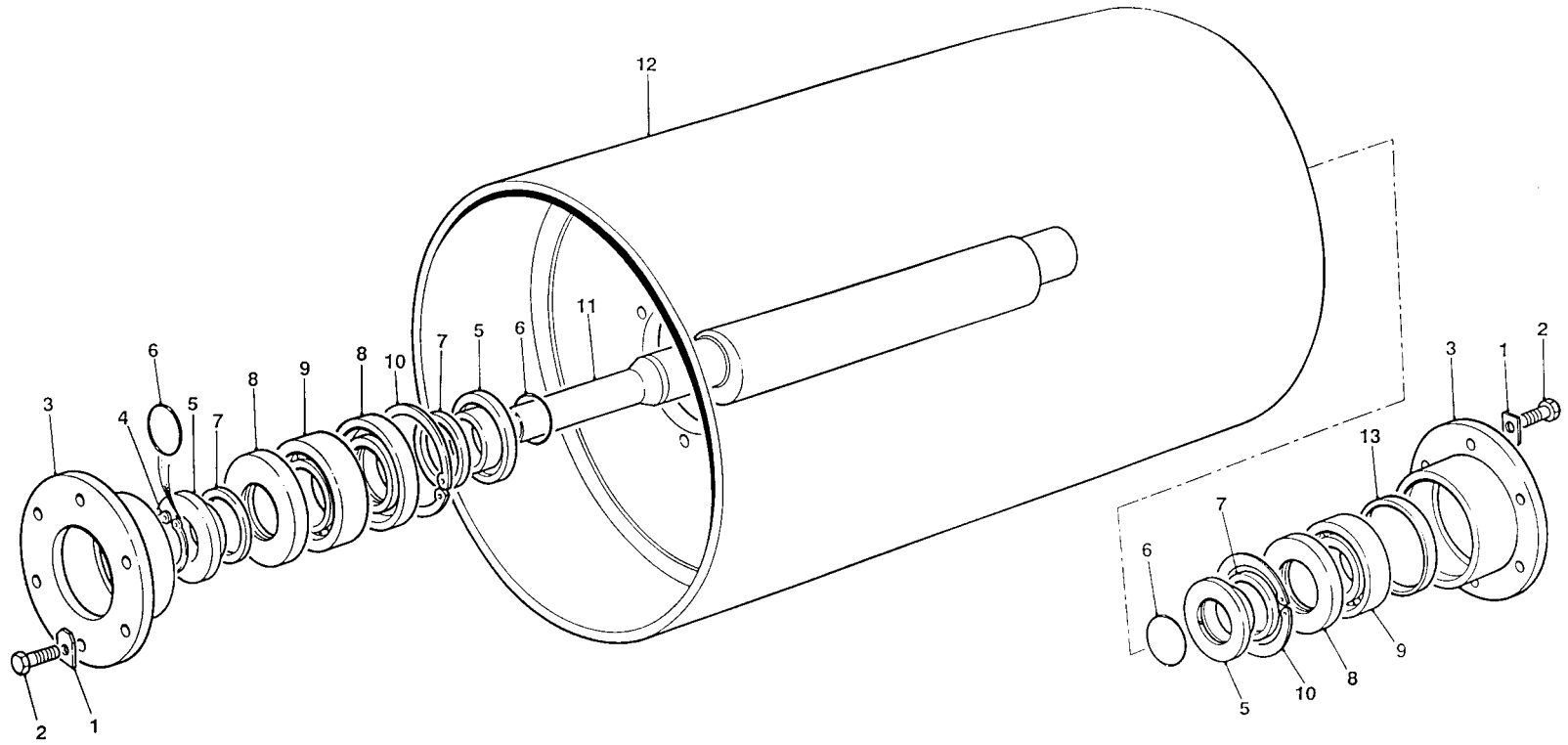


Left Hand Side Plate

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	70219	Pin	12				
2	70193	A.V. Mount	12				
3	70405	Plate	2				
4	70117	Nut	12				
5	70408	Nilos Ring	2				
6	70277	Bearing	4				
7	70181	Spacer	2				
8	70407	Nilos Ring	2				
9	70718	Bolt	6				
10	70128	Spring Washer	6				
11	70404	Shaft	2				
12	70403	Plate	1				

REMARK:

Drum

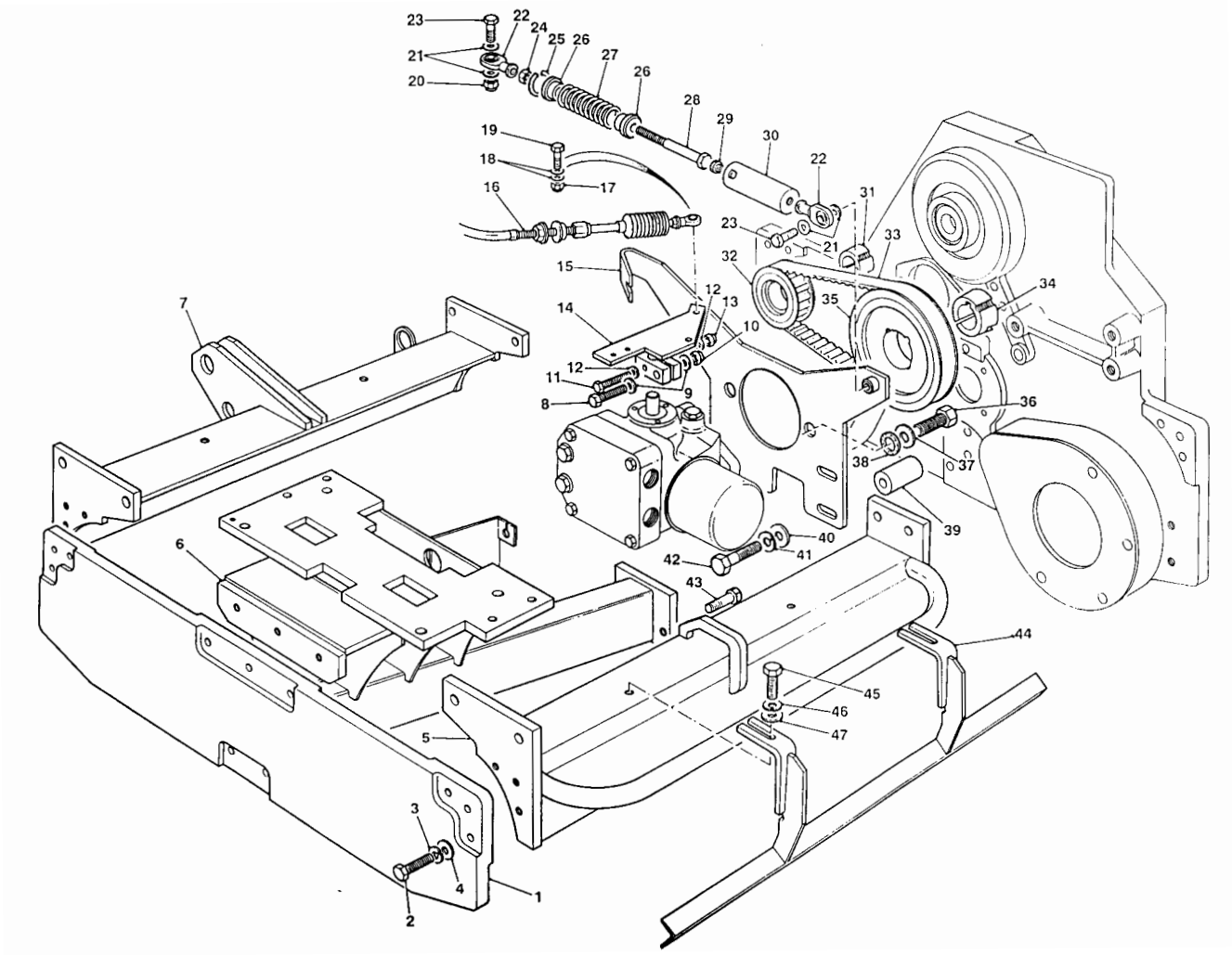


Drum

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	70428	Lock Washer	24				
2	70159	Setscrew	24				
3	70401	Housing	4				
4	70531	Circlip	2				
5	70422	Retainer	6				
6	70398	O-Ring	6				
7	70402	Seal	6				
8	70390	Retainer	6				
9	70424	Bearing	4				
10	70575	Circlip	4				
11	70391	Vibrator Shaft	2				
12	70332	Drum	2				
13	70423	Retainer	2				

REMARK:

Frame, Drive and Vibration Linkage



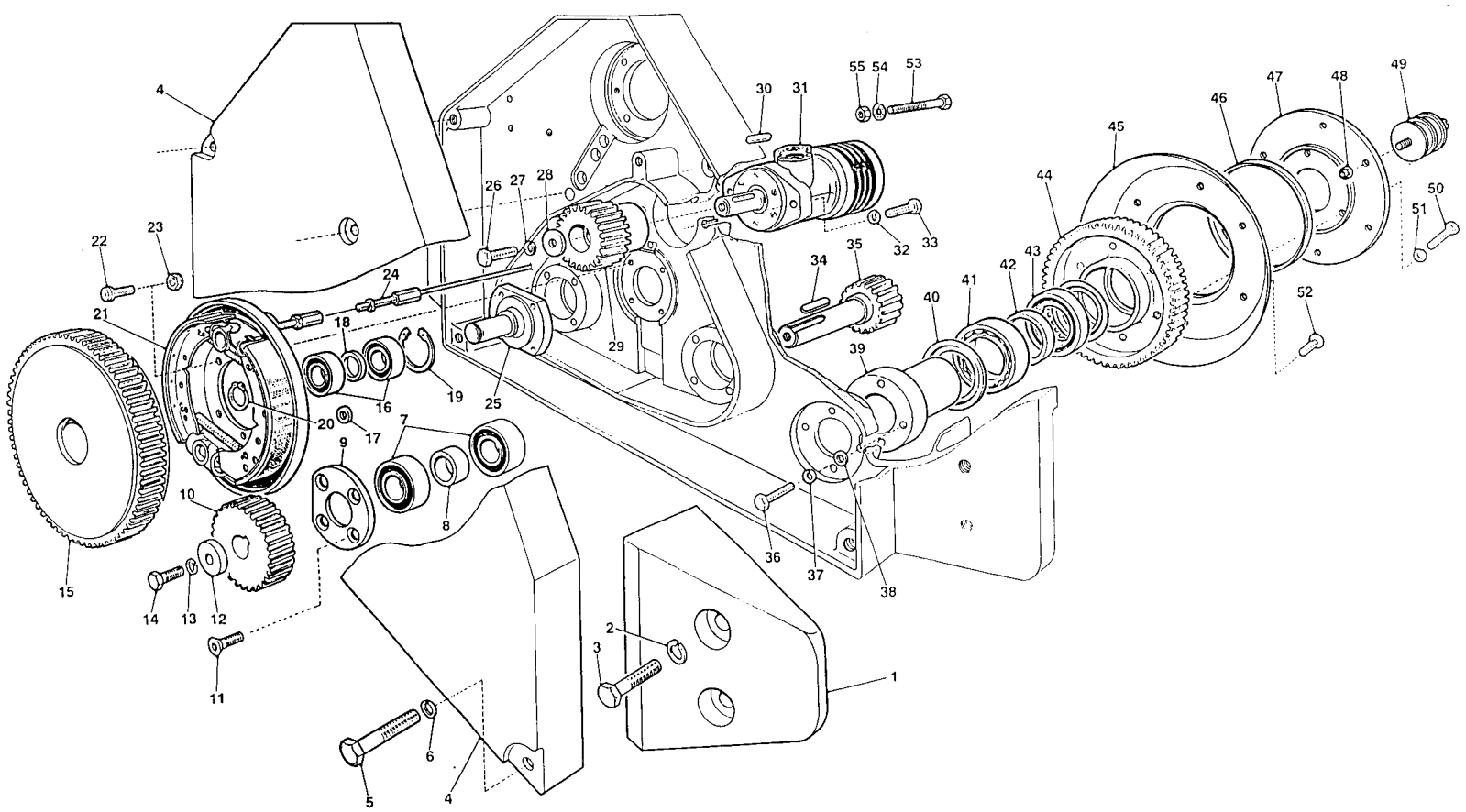
Frame, Drive and Vibration Linkage

Item	Part No.	Description	Qty.
1	70403	Plate	1
2	70739	Setscrew	17
3	70128	Spring Washer	20
4	70309	Washer	6
5	70342	Crossmember	1
6	70335`	Bedplate	1
7	70341	Crossmember	1
8	70740	Setscrew	1
9	70122	Washer	2
10	70538	Nut	1
11	70741	Setscrew	1
12	70301	Washer	2
13	70620	Nut	1
14	70336	Lever	1
15	70337	Plate	1
16	70385	Cable	1
17	70620	Nut	1
18	70301	Washer	2
19	70742	Bolt	1
20	70538	Nut	1
21	70122	Washer	4
22	70376	Ball Joint	2
23	70743	Bolt	2
24	70640	Nut	3
25	70375	Circlip	1
26	70369	Collar	2
27	70501	Spring	1
28	70371	Bolt	1
29	70744	Capscrew	1
30	70370	Housing	1
31	70400	Bush	1
32	70399	Pulley	1
33	70174	Drive belt	1
34	70201	Bush	1
35	70358	Pulley	1
36	70387	Setscrew	2
37	70745	Washer	2
38	70746	Washer	2
39	70272	Spacer	3

Item	Part No.	Description	Qty.
40	70263	Washer	3
41	70130	Spring Washer	3
42	70681	Bolt	3
43	70747	Capscrew	3
44	70340	Scraper Blade	2
45	70748	Setscrew	4
46	70128	Spring Washer	4
47	70309	Washer	4

REMARK:

Transmission

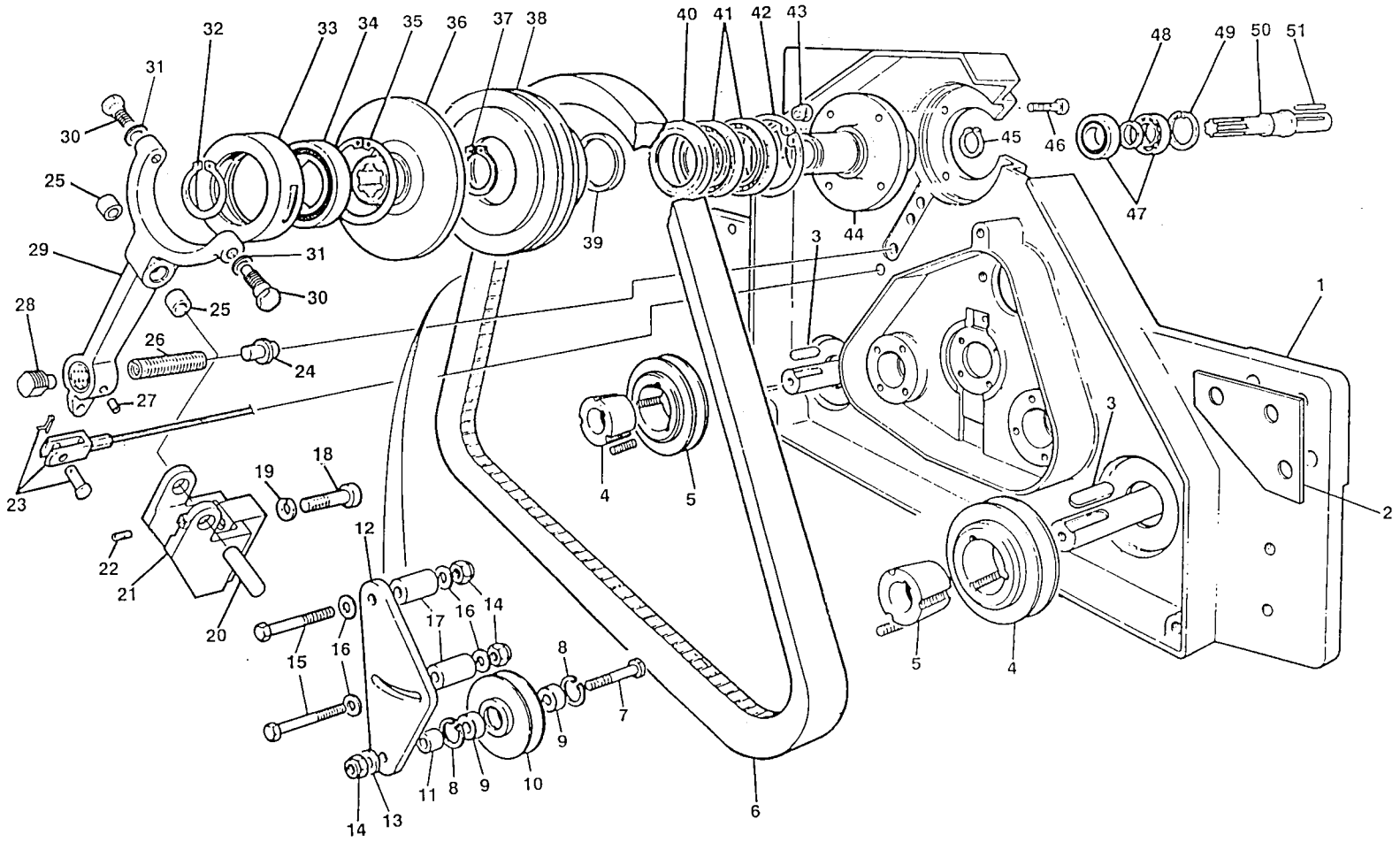


Transmission

Item	Part No.	Description	Qty.
1	70421	Buffer	2
2	70130	Spring Washer	4
3	70680	Bolt	4
4	70420	Cover	1
5	70683	Bolt	4
6	70130	Spring Washer	4
7	70578	Bearing	2
8	70414	Spacer	2
9	70415	Plate	2
10	70416	Gear	2
11	70749	Screw	8
12	70303	Plate	1
13	70116	Spring Washer	2
14	70125	Setscrew	2
15	70294	Gear	1
16	70578	Bearing	2
17	70251	Grommet	2
18	70305	Spacer	1
19	70528	Circlip	1
20	70580	Circlip	1
21	70228	Brake	1
22	70750	Capscrew	4
23	70538	Nut	4
24	70433	Cable	1
25	70292	Shaft	1
26	70125	Setscrew	1
27	70116	Spring Washer	1
28	70303	Plate	1
29	70419	Gear	1
30	70131	Key	1
31	70185	Hydraulic Motor	1
32	70130	Spring Washer	2
33	70113	Bolt	1
34	70706	Key	1
35	70413	Gear	2
36	70125	Setscrew	8
37	70128	Spring Washer	8
38	70309	Washer	8
39	70410	Hub	2
40	70407	Nilos Ring	2
41	70277	Bearing	4
42	70411	Spacer	2
43	70408	Nilos Ring	2
44	70412	Gear	2
45	70417	Plate	2
46	70396	Seal	2
47	70418	Plate	2
48	70117	Nut	12
49	70193	A.V. Mount	12
50	70113	Bolt	12
51	70130	Spring Washer	12
52	70749	Screw	12
53	70683	Bolt	1
54	70751	Nut	1
55	70752	Washer	1

REMARK:

Vibrator Drive

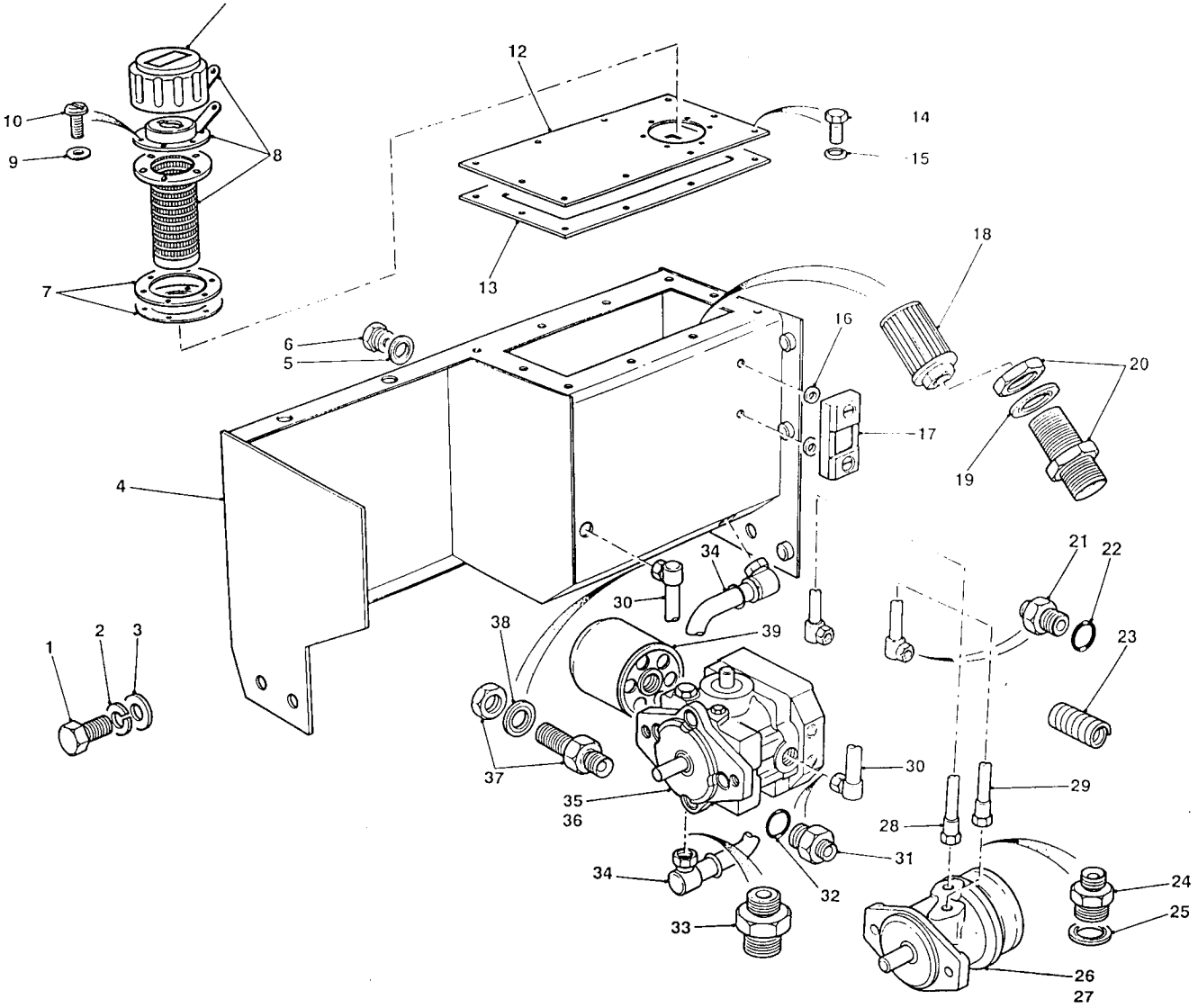


Vibrator Drive

Item	Part No.	Description	Qty.
1	70409	Side Plate	1
2	70386	Plate	2
3	70131	Key	2
4	70356	Pulley	2
5	70392	Bush	2
6	70393	Vee Belt	1
7	70395	Bolt	1
8	70253	Circlip	2
9	70252	Bearing	2
10	70282	Pulley	1
11	70427	Spacer	1
12	70338	Plate	1
13	70729	Washer	1
14	70684	Nut	3
15	70753	Bolt	2
16	70263	Washer	4
17	70394	Spacer	2
18	70683	Bolt	2
19	70130	Spring Washer	2
20	70688	Pin	1
21	70308	Pivot Block	1
22	70689	Capscrew	1
23	70355	Cable	1
24	70429	Spring	1
25	70173	Bearing	2
26	70430	Spring	1
27	70691	Screw	1
28	70269	Spring Compressor	1
29	70274	Lever	1
30	70221	Screw	1
31	70754	Washer	2
32	70531	Circlip	1
33	70221	Housing	1
34	70198	Bearing	1
35	70205	Circlip	1
36	70176	Clutch Plate	1
37	70570	Circliiip	1
38	70339	Pulley	1
39	70181	Spacer	1
40	70408	Nilos Ring	2
41	70277	Bearing	1
42	70137	Circlip	1
43	70538	Nut	1
44	70216	Hub	1
45	70172	Circlip	1
46	70625	Bolt	4
47	70278	Bearing	2
48	70220	Spacer	1
49	70204	Circlip	1
50	70366	Shaft	1
51	70602	Key	1

REMARK:

Hydraulic Tank, Motor and Pump

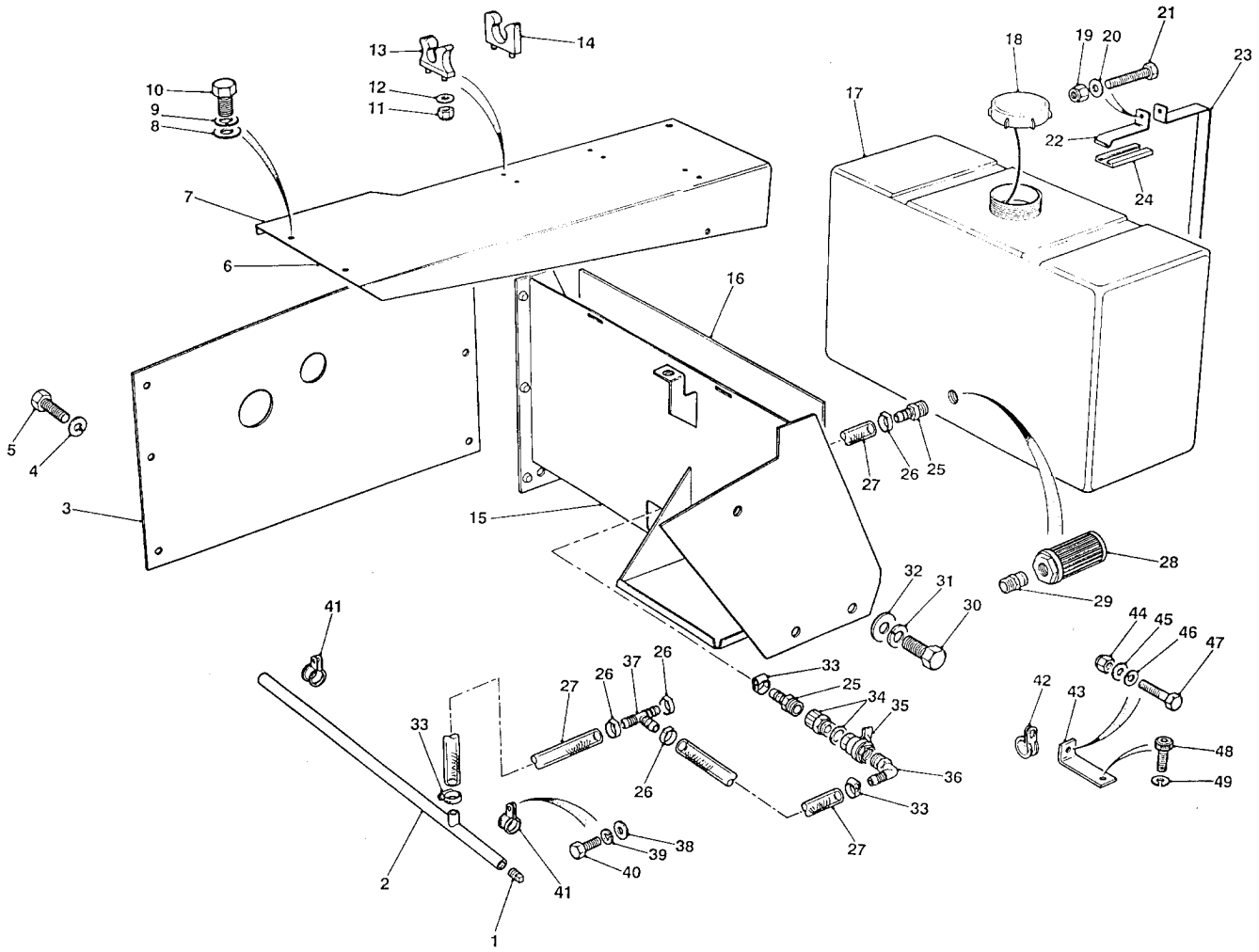


Hydraulic Tank, Motor and Pump

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	70755	Setscrew	4				
2	70130	Spring Washer	4				
3	70281	Washer	4				
4	70334	Hydraulic Tank	1				
5	70577	Seal	1				
6	70145	Plug	1				
7	70140	Gasket	2				
8	70139	Filler Cap	1				
9	70756	Washer	6				
10	70757	Screw	6				
11	70758	Cap	1				
12	70521	Cover	1				
13	70466	Gasket	1				
14	70759	Setscrew	10				
15	70746	Washer	10				
16	70251	Grommet	2				
17	70233	Gauge	1				
18	70474	Filter	1				
19	70585	Seal	1				
20	70760	Union	1				
21	70761	Union	2				
22	70762	O'Ring	2				
23	70763	Sleeve	1				
24	70764	Union	2				
25	70577	Seal	2				
26	70185	Hydraulic Motor	1				
27	70679	Hydraulic Motor	1				
28	70765	Hydraulic Hose	1				
29	70766	Hydraulic Hose	1				
30	70767	Hydraulic Hose	1				
31	70161	Union	1				
32	70151	O'Ring	1				
33	70768	Union	1				
34	70 769	Hydraulic Hose	1				
35	70357	Pump	1				
36	70770	Seal Kit	1				
37	70771	Union	1				
38	70581	Seal	1				
39	70772	Filter	1				

REMARK:

Water System



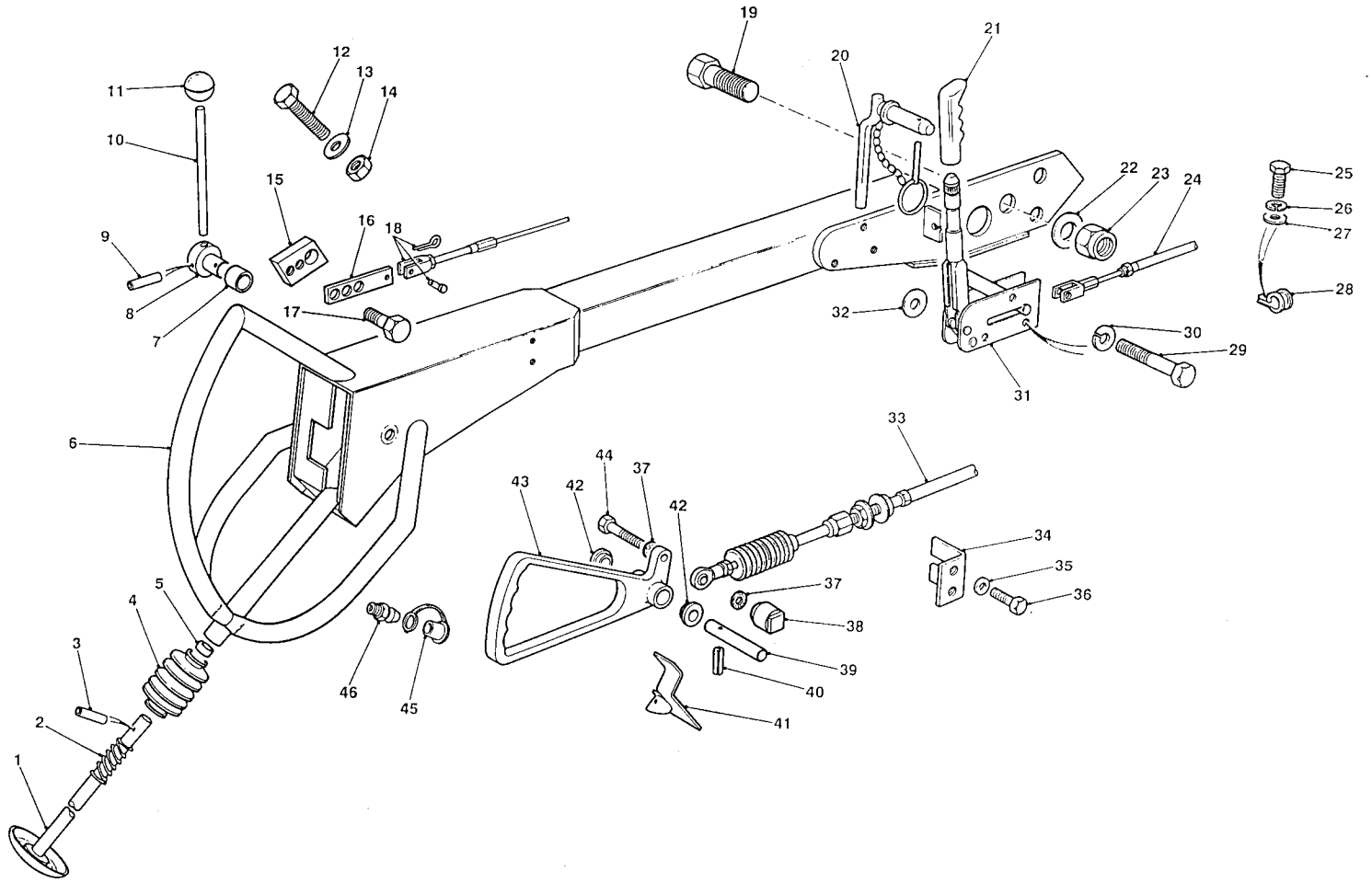
Water System

Item	Part No.	Description	Qty.
1	70773	Socket	4
2	70354	Spray Bar	2
3	70351	Cover	1
4	70128	Spring Washer	6
5	70748	Setscrew	6
6	70367	Cover	1
7	70774	Cover	1
8	70281	Washer	4
9	70130	Spring Washer	4
10	70755	Setscrew	4
11	70538	Nut	6
12	70122	Washer	6
13	70425	Clip	3
14	70426	Clip	1
15	70333	Support	1
16	70382	Plastic	2
17	70352	Water Tank	1
18	70775	Cap	1
19	70538	Nut	2
20	70122	Washer	2
21	70740	Setscrew	2
22	70373	Strap	2
23	70374	Strap	2
24	70381	Strip	1
25	70434	Socket	2
26	70776	Clip	6
27	70279	Hose	2.5m
28	70379	Filter	1
29	70777	Union	1
30	70698	Setscrew	4
31	70130	Spring Washer	4
32	70281	Washer	4
33	70514	Hose Clip	2
34	70520	Union	1
35	70383	Tap	1
36	70778	Elbow	1
37	70161	Cap	1
38	70122	Washer	4
39	70116	Spring Washer	4
40	70129	Setscrew	4

Item	Part No.	Description	Qty.
41	70519	Hose Clip	4
42	70779	Pipe Clip	1
43	70780	Bracket	1
44	70620	Nut	1
45	70301	Washer	1
46	70631	Spring Washer	1
47	70781	Bolt	1
48	70691	Screw	1
49	70116	Spring Washer	1

REMARK:

Steering Arm and Linkage



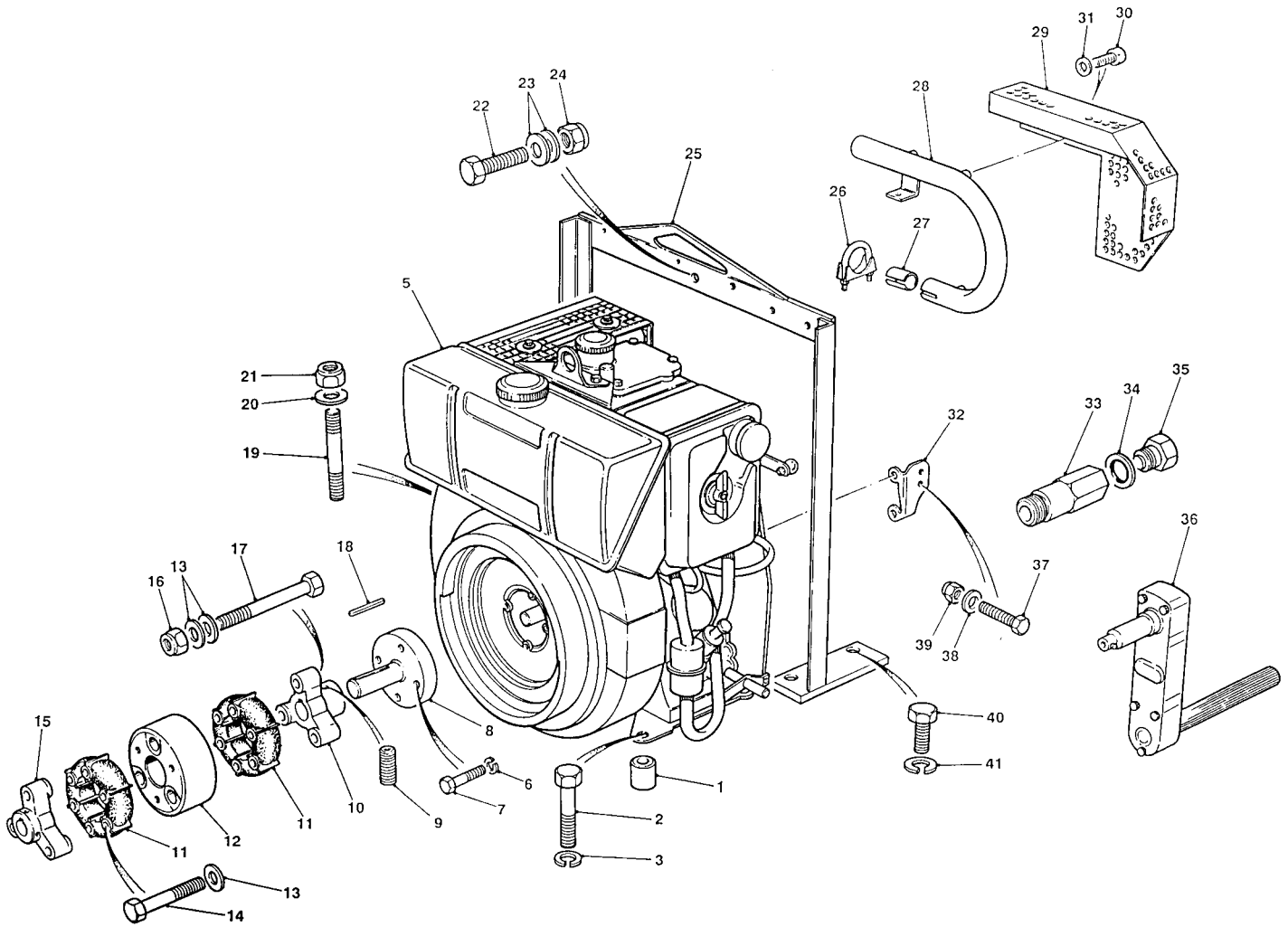
Steering Arm and Linkage

Item	Part No.	Description	Qty.
1	70345	Push Button	1
2	70582	Spring	1
3	70622	Pin	1
4	70295	Bellows	1
5	70138	Bearing	2
6	70344	Control Arm	1
7	70572	Bearing	1
8	70166	Lever	1
9	70622	Pin	2
10	70330	Rod	1
11	70148	Knob	1
12	70739	Setscrew	1
13	70309	Washer	1
14	70641	Nut	1
15	70160	Lever	1
16	70156	Link	1
17	70158	Bolt	1
18	70355	Cable	1
19	70782	Bolt	1
20	70350	Pin	1
21	70717	Handle	1
22	70527	Washer	1
23	70783	Nut	1
24	70433	Cable	1
25	70129	Setscrew	1
26	70116	Spring Washer	1
27	70122	Washer	1
28	70519	Hose Clip	1
29	70127	Bolt	3
30	70128	Spring Washer	3
31	70530	Handbrake Lever	1
32	70309	Washer	6
33	70385	Cable	1
34	70349	Bracket	1
35	70301	Washer	2
36	70123	Setscrew	2
37	70784	Washer	2
38	70343	Nut	1
39	70347	Pin	1
40	70785	Pin	1

Item	Part No.	Description	Qty.
41	70346	Lever	1
42	70368	Bush	2
43	70348	Handle	1
44	70716	Bolt	1
45	70786	Cap	1
46	70637	Grease Nipple	1

REMARK:

Engine - Hatz 1D41

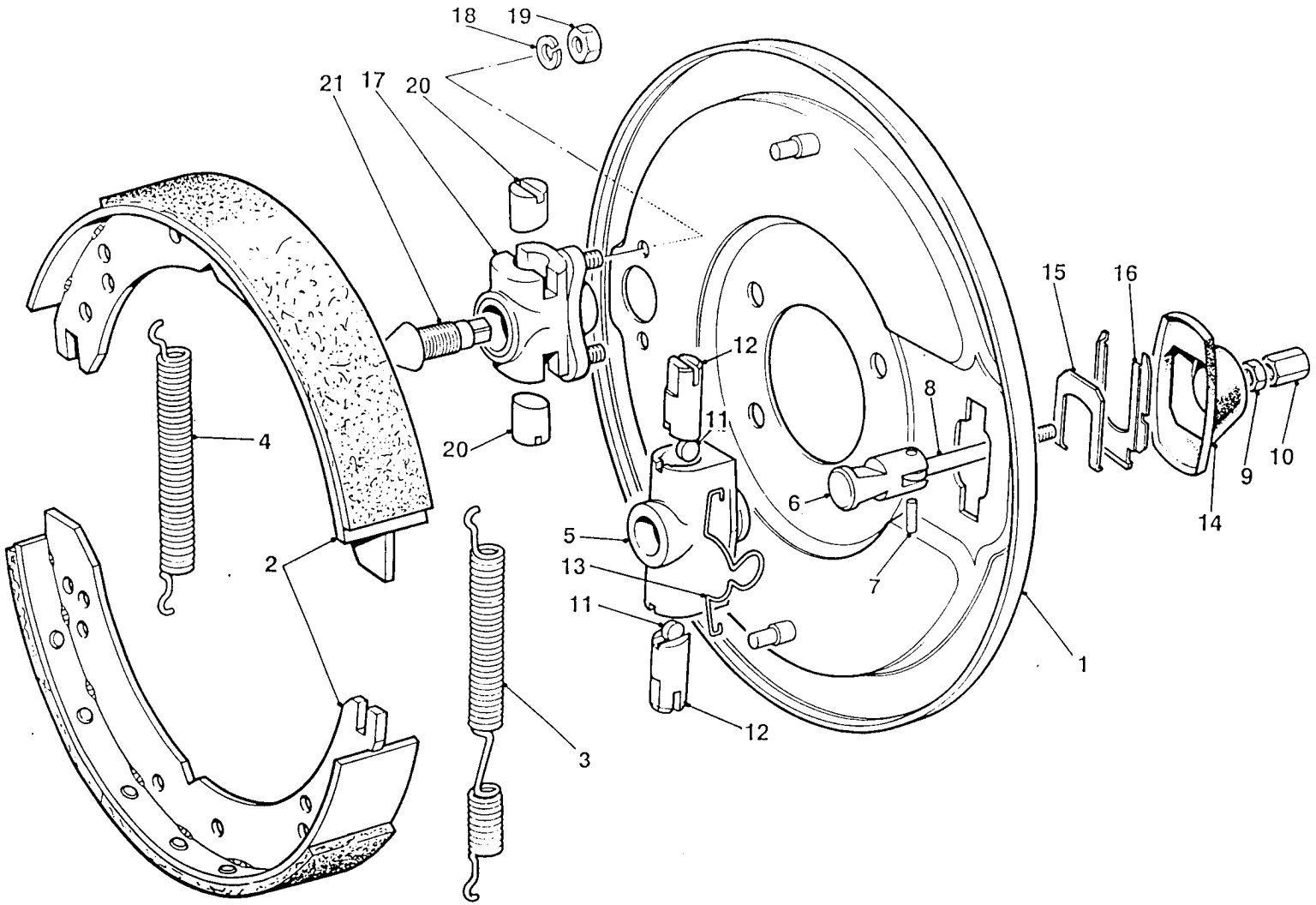


Engine - Hatz 1D41

Item	Part No.	Description	Qty.
1	70365	Spacer	4
2	70683	Bolt	3
3	70130	Spring Washer	3
4	-	-	-
5	70361	Engine	1
6	70116	Spring Washer	4
7	70797	Bolt	4
8	70364	Shaft	1
9	70597	Capscrew	4
10	70454	Coupling	1
11	70443	Coupling	2
12	70360	Coupling	1
13	70604	Washer	12
14	70603	Bolt	6
15	70359	Coupling	1
16	70117	Nut	6
17	70605	Bolt	6
18	70602	Key	1
19	70378	Stud	1
20	70281	Washer	1
21	70684	Nut	1
22	70699	Setscrew	1
23	70380	Washer	2
24	70684	Nut	1
25	70353	Lifting Point	1
26	70141	Clamp	1
27	70377	Spacer	1
28	70362	Exhaust Pipe	1
29	70363	Cover	1
30	70798	Capscrew	3
31	70301	Washer	3
32	70799	Bracket	1
33	70372	Oil Drain	1
34	70577	Seal	1
35	70145	Plug	1
36	70800	Handle	1
37	70801	Setscrew	2
38	70301	Washer	2
39	70620	Nut	2
40	70698	Setscrew	4
41	70130	Spring Washer	4

REMARK:

Handbrake



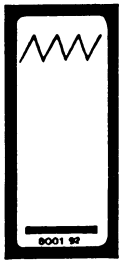
Handbrake

Item	Part No.	Description	Qty.
	70228	**Brake Assembly**	**1**
1	70657	Backplate	1
2	70469	Brake Shoes	1 pr
3	70658	Return Spring	1
4	70659	Return Spring	1
	70685	**Expander Assembly**	**1**
5	70660	Housing	1
6	70661	Plunger	1
7	70662	Plunger Pin	1
8	70663	Drawlink	1
9	70664	Locknut	1
10	70665	Barrel Nut	1
11	70666	Roller	2
12	70667	Tappet	2
13	70668	Retaining Clip	1
14	70669	Dust Cover	1
15	70670	Spring Plate	1
16	70671	Locking Plate	1
17	70672	Adjuster Assembly	1
18	70733	Washer	2
19	70674	Locknut	2
20	70734	Tappet	2
21	70676	Wedge Cone	2

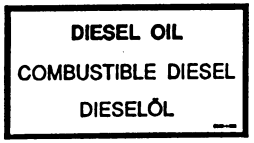
Item	Part No.	Description	Qty.

REMARK:

Decals



70540

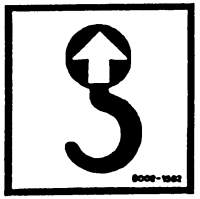


70541

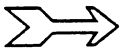
FOR OPERATING AND MAINTENANCE INSTRUCTIONS,
REFER TO HANDBOOK SUPPLIED WITH THIS MACHINE.
FURTHER COPIES AVAILABLE ON REQUEST.
8002-88

70561

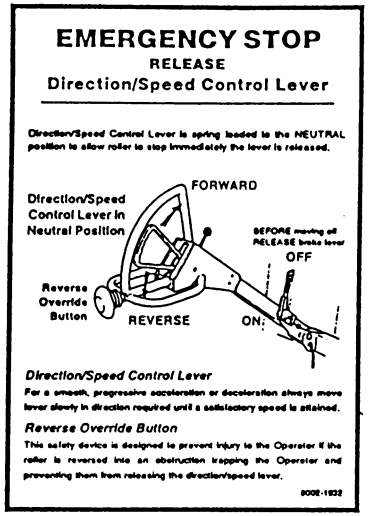
70544



70546



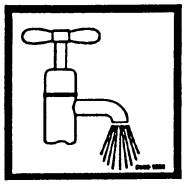
70553


EMERGENCY STOP
RELEASE
Direction/Speed Control Lever
Direction/Speed Control Lever is spring loaded to the NEUTRAL position to allow roller to stop immediately the lever is released.
Direction/Speed Control Lever in Neutral Position
FORWARD
BEFORE moving off RELEASE brake lever
OFF
Reverse Override Button
REVERSE
ON
Direction/Speed Control Lever
For a smooth, progressive acceleration or deceleration always move lever slowly in direction required until a satisfactory speed is attained.
Reverse Override Button
This safety device is designed to prevent injury to the Operator if the roller is reversed into an obstruction trapping the Operator and preventing them from releasing the direction/speed lever.
8008-1832

70829

Stone®

55201



70547

Decals

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	70540	Vibrator On/Off	1				
2	70829	Emergency Stop	1				
3	70541	Diesel Oil	1				
4	70561	Refer to Handbook	1				
5	70544	Ear Protection	1				
6	70546	Lifting Point	1				
7	70553	White Arrow	1				
8	55201	Stone	2				
9	70547	Water Tap	1				

REMARK:

CALIFORNIA PROPOSITION 65 WARNING: Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.